

značka	protonové číslo Z	hmotnostní číslo A	relativní hmotnost A_r	hmotnost m [kg]	součet hmotnosti částic v atomu $Z m_p + (A-Z) m_n + Z m_e$ [kg]	hmotnostní schodek Δm [kg]	vazebná energie $E_v = \Delta m c^2$		vazebná energie připadající na 1 nukleon E_v / A [MeV]			
							[J]	[MeV]				
n	0	1	1.008665	1.674927E-27	1.674927E-27	-8.717577E-36	-7.834967E-19	0.000	0.000	Konstanty		
H	1	1	1.007825	1.673533E-27	1.673533E-27	1.894523E-35	1.702712E-18	0.000	0.000	atomová hmotnostní konstanta	1.660539E-27	kg
H	1	2	2.014102	3.344494E-27	3.348460E-27	3.965659E-30	3.564157E-13	2.225	1.112	hmotnost protonu	1.672622E-27	kg
H	1	3	3.016049	5.008267E-27	5.023387E-27	1.512018E-29	1.358934E-12	8.482	2.827	hmotnost neutronu	1.674927E-27	kg
He	2	3	3.016029	5.008234E-27	5.021993E-27	1.375869E-29	1.236569E-12	7.718	2.573	hmotnost elektronu	9.109383E-31	kg
H	1	4	4.027806	6.688329E-27	6.698314E-27	9.985401E-30	8.974431E-13	5.601	1.400	elementární náboj	1.602177E-19	C
He	2	4	4.002603	6.646478E-27	6.696920E-27	5.044161E-29	4.533466E-12	28.296	7.074	rychlost světla	2.997925E+08	m/s
Li	3	4	4.027186	6.687298E-27	6.695525E-27	8.227110E-30	7.394158E-13	4.615	1.154			
H	1	5	5.035311	8.361330E-27	8.373242E-27	1.191137E-29	1.070541E-12	6.682	1.336			
He	2	5	5.012224	8.322992E-27	8.371847E-27	4.885503E-29	4.390871E-12	27.406	5.481			
Li	3	5	5.012538	8.323514E-27	8.370453E-27	4.693870E-29	4.218640E-12	26.331	5.266			
H	1	6	6.044943	1.003786E-26	1.004817E-26	1.030697E-29	9.263441E-13	5.782	0.964			
He	2	6	6.018889	9.994599E-27	1.004677E-26	5.217513E-29	4.689267E-12	29.268	4.878			
Li	3	6	6.015123	9.988345E-27	1.004538E-26	5.703464E-29	5.126018E-12	31.994	5.332			
Be	4	6	6.019726	9.995989E-27	1.004399E-26	4.799568E-29	4.313636E-12	26.924	4.487			
He	2	7	7.028021	1.167030E-26	1.172170E-26	5.140035E-29	4.619633E-12	28.833	4.119			
Li	3	7	7.016005	1.165035E-26	1.172031E-26	6.995887E-29	6.287590E-12	39.244	5.606			
Be	4	7	7.016930	1.165188E-26	1.171891E-26	6.702778E-29	6.024156E-12	37.600	5.371			
B	5	7	7.029918	1.167345E-26	1.171752E-26	4.406595E-29	3.960450E-12	24.719	3.531			
He	2	8	8.033922	1.334064E-26	1.339663E-26	5.598947E-29	5.032083E-12	31.408	3.926			
Li	3	8	8.022487	1.332165E-26	1.339523E-26	7.358233E-29	6.613250E-12	41.277	5.160			
Be	4	8	8.005305	1.329312E-26	1.339384E-26	1.007195E-28	9.052218E-12	56.500	7.062			
B	5	8	8.024607	1.332517E-26	1.339245E-26	6.727294E-29	6.046190E-12	37.737	4.717			
C	6	8	8.037675	1.334687E-26	1.339105E-26	4.417873E-29	3.970586E-12	24.782	3.098			
He	2	9	9.043950	1.501783E-26	1.507156E-26	5.372536E-29	4.828595E-12	30.138	3.349			
Li	3	9	9.026790	1.498933E-26	1.507016E-26	8.082687E-29	7.264357E-12	45.341	5.038			
Be	4	9	9.012182	1.496508E-26	1.506877E-26	1.036882E-28	9.319034E-12	58.165	6.463			
B	5	9	9.013329	1.496698E-26	1.506737E-26	1.003897E-28	9.022573E-12	56.314	6.257			
C	6	9	9.031037	1.499639E-26	1.506598E-26	6.959036E-29	6.254470E-12	39.037	4.337			
He	2	10	10.052399	1.669240E-26	1.674648E-26	5.408463E-29	4.860885E-12	30.339	3.034			
Li	3	10	10.035481	1.666431E-26	1.674509E-26	8.078230E-29	7.260351E-12	45.316	4.532			
Be	4	10	10.013534	1.662786E-26	1.674369E-26	1.158322E-28	1.041048E-11	64.977	6.498			
B	5	10	10.012937	1.662687E-26	1.674230E-26	1.154287E-28	1.037421E-11	64.751	6.475			
C	6	10	10.016853	1.663337E-26	1.674091E-26	1.075310E-28	9.664402E-12	60.320	6.032			
N	7	10	10.041654	1.667456E-26	1.673951E-26	6.495424E-29	5.837796E-12	36.437	3.644			
Li	3	11	11.043798	1.833866E-26	1.842002E-26	8.136092E-29	7.312355E-12	45.640	4.149			
Be	4	11	11.021658	1.830189E-26	1.841862E-26	1.167306E-28	1.049122E-11	65.481	5.953			
B	5	11	11.009305	1.828138E-26	1.841723E-26	1.358475E-28	1.220936E-11	76.205	6.928			
C	6	11	11.011434	1.828491E-26	1.841583E-26	1.309189E-28	1.176640E-11	73.440	6.676			
N	7	11	11.026091	1.830925E-26	1.841444E-26	1.051852E-28	9.453570E-12	59.005	5.364			
Be	4	12	12.026921	1.997117E-26	2.009355E-26	1.223796E-28	1.099893E-11	68.650	5.721			
B	5	12	12.014352	1.995030E-26	2.009215E-26	1.418557E-28	1.274935E-11	79.575	6.631			
C	6	12	12.000000	1.992647E-26	2.009076E-26	1.642932E-28	1.476594E-11	92.162	7.680			
N	7	12	12.018613	1.995737E-26	2.008936E-26	1.319907E-28	1.186273E-11	74.041	6.170			
O	8	12	12.034405	1.998360E-26	2.008797E-26	1.043733E-28	9.380606E-12	58.549	4.879			
Be	4	13	13.035693	2.164627E-26	2.176848E-26	1.222013E-28	1.098291E-11	68.550	5.273			
B	5	13	13.017780	2.161653E-26	2.176708E-26	1.505516E-28	1.353090E-11	84.453	6.496			
C	6	13	13.003355	2.159258E-26	2.176569E-26	1.731108E-28	1.555843E-11	97.108	7.470			
N	7	13	13.005739	2.159653E-26	2.176429E-26	1.677579E-28	1.507732E-11	94.105	7.239			
O	8	13	13.024812	2.162821E-26	2.176290E-26	1.346908E-28	1.210540E-11	75.556	5.812			
Be	4	14	14.042893	2.331877E-26	2.344340E-26	1.246340E-28	1.120154E-11	69.915	4.994			
B	5	14	14.025404	2.328973E-26	2.344201E-26	1.522804E-28	1.368628E-11	85.423	6.102			
C	6	14	14.003242	2.325293E-26	2.344061E-26	1.876866E-28	1.686843E-11	105.284	7.520			
N	7	14	14.003074	2.325265E-26	2.343922E-26	1.865710E-28	1.676816E-11	104.659	7.476			
O	8	14	14.008596	2.326182E-26	2.343782E-26	1.760064E-28	1.581867E-11	98.732	7.052			
B	5	15	15.031103	2.495973E-26	2.511694E-26	1.572054E-28	1.412891E-11	88.186	5.879			
C	6	15	15.010599	2.492568E-26	2.511554E-26	1.898580E-28	1.706359E-11	106.503	7.100			
N	7	15	15.000109	2.490826E-26	2.511415E-26	2.058830E-28	1.850385E-11	115.492	7.699			
O	8	15	15.003066	2.491317E-26	2.511275E-26	1.995787E-28	1.793724E-11	111.955	7.464			
F	9	15	15.018009	2.493799E-26	2.511136E-26	1.733698E-28	1.558170E-11	97.253	6.484			
B	5	16	16.039809	2.663473E-26	2.679186E-26	1.571375E-28	1.412281E-11	88.148	5.509			
C	6	16	16.014701	2.659303E-26	2.679047E-26	1.974349E-28	1.774457E-11	110.753	6.922			
N	7	16	16.006102	2.657875E-26	2.678907E-26	2.103203E-28	1.890264E-11	117.981	7.374			
O	8	16	16.009415	2.656018E-26	2.678768E-26	2.275021E-28	2.044687E-11	127.619	7.976			
F	9	16	16.011466	2.658766E-26	2.678628E-26	1.986238E-28	1.785141E-11	111.420	6.964			
Ne	10	16	16.025761	2.661140E-26	2.678489E-26	1.734908E-28	1.559258E-11	97.321	6.083			
B	5	17	17.046990	2.830719E-26	2.846679E-26	1.596014E-28	1.434426E-11	89.530	5.266			
C	6	17	17.022586	2.826667E-26	2.846540E-26	1.987302E-28	1.786098E-11	111.479	6.558			
N	7	17	17.008450	2.824319E-26	2.846400E-26	2.208087E-28	1.984530E-11	123.865	7.286			
O	8	17	17.009913	2.822772E-26	2.846261E-26	2.348879E-28	2.111067E-11	131.762	7.751			
F	9	17	17.002095	2.823264E-26	2.846121E-26	2.285722E-28	2.054305E-11	128.220	7.542			
Ne	10	17	17.017672	2.825850E-26	2.845982E-26	2.013126E-28	1.809307E-11	112.928	6.643			
C	6	18	18.026759	2.993413E-26	3.014032E-26	2.061888E-28	1.853133E-11	115.663	6.426			
N	7	18	18.014079	2.991308E-26	3.013893E-26	2.258505E-28	2.029843E-11	126.693	7.038			
O	8	18	17.999161	2.988831E-26	3.013753E-26	2.492277E-28	2.239947E-11	139.806	7.767			
F	9	18	18.000938	2.989126E-26	3.013614E-26	2.448824E-28	2.200893E-11	137.369	7.632			
Ne	10	18	18.005708	2.989918E-26	3.013474E-26	2.355665E-28	2.117166E-11	132.143	7.341			
Na	11	18	18.025969	2.993282E-26	3.013335E-26	2.005281E-28	1.802256E-11	112.488	6.249			
C	6	19	19.034805	3.160803E-26	3.181525E-26	2.072171E-28	1.862374E-11	116.240	6.118			
N	7	19	19.017029	3.157852E-26	3.181386E-26	2.353407E-28	2.115137E-11	132.016	6.948			
O	8	19	19.003580	3.155618E-26	3.181246E-26	2.562780E-28	2.303312E-11	143.761	7.566			
F	9	19	18.998403	3.154759E-26	3.181107E-26	2.634798E-28	2.368038E-11	147.801	7.779			
Ne	10	19	19.001880	3.155336E-26	3.180967E-26	2.563114E-28	2.303612E-11	143.780	7.567			
Na	11	19	19.013877	3.157328E-26	3.180828E-26	2.349949E-28	2.112029E-11	131.822	6.938			
Mg	12	19	19.035470	3.160914E-26	3.180688E-26	1.977451E-28	1.					

značka	protonové číslo Z	hmotnostní číslo A	relativní hmotnost A_r	hmotnost m [kg]	součet hmotností částic v atomu $Z m_p + (A-Z) m_n + Z m_e$ [kg]	hmotnostní schodek Δm [kg]	vazebná energie		vazebná energie připadající na 1 nukleon E_v / A [MeV]
							$E_v = \Delta m c^2$ [J]	[MeV]	
Al	13	23	23.007267	3.820446E-26	3.850520E-26	3.007356E-28	2.702877E-11	168.700	7.335
O	8	24	24.020473	3.988693E-26	4.018710E-26	3.001690E-28	2.697784E-11	168.382	7.016
F	9	24	24.008115	3.986664E-26	4.018570E-26	3.192943E-28	2.869674E-11	179.111	7.463
Ne	10	24	23.993611	3.984232E-26	4.018431E-26	3.419853E-28	3.073611E-11	191.840	7.993
Na	11	24	23.990963	3.983793E-26	4.018291E-26	3.449878E-28	3.100596E-11	193.524	8.063
Mg	12	24	23.985042	3.982809E-26	4.018152E-26	3.534253E-28	3.176429E-11	198.257	8.261
Al	13	24	23.999939	3.985283E-26	4.018012E-26	3.272934E-28	2.941566E-11	183.598	7.650
Si	14	24	24.011546	3.987210E-26	4.017873E-26	3.066253E-28	2.755811E-11	172.004	7.167
F	9	25	25.012102	4.153357E-26	4.186063E-26	3.270634E-28	2.939499E-11	183.469	7.339
Ne	10	25	24.997737	4.150971E-26	4.185924E-26	3.495222E-28	3.141349E-11	196.068	7.843
Na	11	25	24.989954	4.149679E-26	4.185784E-26	3.610514E-28	3.244968E-11	202.535	8.101
Mg	12	25	24.985837	4.148995E-26	4.185645E-26	3.664933E-28	3.293877E-11	205.588	8.224
Al	13	25	24.990428	4.149758E-26	4.185505E-26	3.574748E-28	3.212823E-11	200.529	8.021
Si	14	25	25.004106	4.152029E-26	4.185366E-26	3.333682E-28	2.996164E-11	187.006	7.480
F	9	26	26.019616	4.320658E-26	4.353556E-26	3.289748E-28	2.956678E-11	184.541	7.098
Ne	10	26	26.000461	4.317478E-26	4.353416E-26	3.593868E-28	3.230007E-11	201.601	7.754
Na	11	26	25.992633	4.316178E-26	4.353277E-26	3.709912E-28	3.334302E-11	208.111	8.004
Mg	12	26	25.982593	4.314511E-26	4.353137E-26	3.862685E-28	3.471608E-11	216.681	8.334
Al	13	26	25.986892	4.315224E-26	4.352998E-26	3.777356E-28	3.394918E-11	211.894	8.150
Si	14	26	25.992330	4.316127E-26	4.352858E-26	3.673105E-28	3.301222E-11	206.046	7.925
F	9	27	27.026760	4.487899E-26	4.521048E-26	3.314995E-28	2.979369E-11	185.958	6.887
Ne	10	27	27.007590	4.484715E-26	4.520909E-26	3.619377E-28	3.252934E-11	203.032	7.520
Na	11	27	26.994077	4.482471E-26	4.520770E-26	3.829821E-28	3.442072E-11	214.837	7.957
Mg	12	27	26.984341	4.480855E-26	4.520630E-26	3.977548E-28	3.574842E-11	223.124	8.264
Al	13	27	26.981539	4.480389E-26	4.520491E-26	4.010130E-28	3.604125E-11	224.952	8.332
Si	14	27	26.986705	4.481247E-26	4.520351E-26	3.910395E-28	3.514488E-11	219.357	8.124
P	15	27	26.999230	4.483327E-26	4.520212E-26	3.688461E-28	3.315023E-11	206.907	7.663
Ne	10	28	28.012072	4.651513E-26	4.688402E-26	3.688841E-28	3.315365E-11	206.929	7.390
Na	11	28	27.998938	4.649332E-26	4.688262E-26	3.892983E-28	3.498839E-11	218.380	7.799
Mg	12	28	27.983877	4.646831E-26	4.688123E-26	4.129133E-28	3.711080E-11	231.627	8.272
Al	13	28	27.981910	4.646505E-26	4.687983E-26	4.147842E-28	3.727894E-11	232.677	8.310
Si	14	28	27.976927	4.645677E-26	4.687844E-26	4.216653E-28	3.789739E-11	236.537	8.448
P	15	28	27.992315	4.648233E-26	4.687704E-26	3.947179E-28	3.547548E-11	221.421	7.908
S	16	28	28.004373	4.650235E-26	4.687565E-26	3.733005E-28	3.355058E-11	209.406	7.479
Ne	10	29	29.019386	4.818782E-26	4.855894E-26	3.711268E-28	3.335521E-11	208.187	7.179
Na	11	29	29.002861	4.816038E-26	4.855755E-26	3.971724E-28	3.569608E-11	222.797	7.683
Mg	12	29	28.988600	4.813670E-26	4.855616E-26	4.194587E-28	3.769907E-11	235.299	8.114
Al	13	29	28.980445	4.812316E-26	4.855476E-26	4.316057E-28	3.879079E-11	242.113	8.349
Si	14	29	28.976495	4.811660E-26	4.855337E-26	4.367708E-28	3.925500E-11	245.010	8.449
P	15	29	28.981801	4.812541E-26	4.855197E-26	4.265655E-28	3.833780E-11	239.286	8.251
S	16	29	28.996608	4.814999E-26	4.855058E-26	4.005825E-28	3.600256E-11	224.710	7.749
Ne	10	30	30.024801	4.985735E-26	5.023387E-26	3.765232E-28	3.384022E-11	211.214	7.040
Na	11	30	30.008976	4.983107E-26	5.023248E-26	4.014067E-28	3.607663E-11	225.173	7.506
Mg	12	30	29.990434	4.980028E-26	5.023108E-26	4.308017E-28	3.871853E-11	241.662	8.055
Al	13	30	29.982960	4.978787E-26	5.022969E-26	4.418175E-28	3.970858E-11	247.841	8.261
Si	14	30	29.973770	4.977261E-26	5.022829E-26	4.556834E-28	4.095478E-11	255.620	8.521
P	15	30	29.978314	4.978016E-26	5.022690E-26	4.467439E-28	4.015134E-11	250.605	8.353
S	16	30	29.984903	4.979110E-26	5.022550E-26	4.344072E-28	3.904257E-11	243.685	8.123
Na	11	31	31.013585	5.149926E-26	5.190740E-26	4.081409E-28	3.668187E-11	228.950	7.385
Mg	12	31	30.996546	5.147097E-26	5.190601E-26	4.350409E-28	3.909953E-11	244.040	7.872
Al	13	31	30.983947	5.145005E-26	5.190462E-26	4.545681E-28	4.085454E-11	254.994	8.226
Si	14	31	30.975363	5.143579E-26	5.190322E-26	4.674265E-28	4.201020E-11	262.207	8.458
P	15	31	30.973762	5.143313E-26	5.190183E-26	4.686914E-28	4.212388E-11	262.917	8.481
S	16	31	30.979555	5.144275E-26	5.190043E-26	4.576771E-28	4.113396E-11	256.738	8.282
Cl	17	31	30.992413	5.146411E-26	5.189904E-26	4.349306E-28	3.908962E-11	243.978	7.870
Na	11	32	32.020467	5.317123E-26	5.358233E-26	4.111030E-28	3.694809E-11	230.612	7.207
Mg	12	32	31.998975	5.313554E-26	5.358094E-26	4.453959E-28	4.003019E-11	249.849	7.808
Al	13	32	31.988124	5.311752E-26	5.357954E-26	4.620190E-28	4.152419E-11	259.174	8.099
Si	14	32	31.974148	5.309432E-26	5.357815E-26	4.838327E-28	4.348472E-11	271.410	8.482
P	15	32	31.973907	5.309392E-26	5.357675E-26	4.828379E-28	4.339531E-11	270.852	8.464
S	16	32	31.972071	5.309087E-26	5.357536E-26	4.844925E-28	4.354402E-11	271.780	8.493
Cl	17	32	31.985690	5.311348E-26	5.357396E-26	4.604832E-28	4.138616E-11	258.312	8.072
Ar	18	32	31.997638	5.313332E-26	5.357257E-26	4.392483E-28	3.947767E-11	246.400	7.700
Na	11	33	33.026720	5.484215E-26	5.525726E-26	4.151077E-28	3.730802E-11	232.858	7.056
Mg	12	33	33.005254	5.480651E-26	5.525586E-26	4.493578E-28	4.038627E-11	252.071	7.639
Al	13	33	32.990843	5.478258E-26	5.525447E-26	4.718926E-28	4.241160E-11	264.712	8.022
Si	14	33	32.978000	5.476125E-26	5.525308E-26	4.918245E-28	4.420298E-11	275.893	8.360
P	15	33	32.971726	5.475083E-26	5.525168E-26	5.008492E-28	4.501408E-11	280.956	8.514
S	16	33	32.971459	5.475039E-26	5.525029E-26	4.998976E-28	4.492855E-11	280.422	8.498
Cl	17	33	32.977452	5.476034E-26	5.524889E-26	4.885511E-28	4.390879E-11	274.057	8.305
Ar	18	33	32.989926	5.478105E-26	5.524750E-26	4.664432E-28	4.192183E-11	261.655	7.929
Mg	12	34	34.009456	5.647402E-26	5.693079E-26	4.567679E-28	4.105226E-11	256.228	7.536
Al	13	34	33.996852	5.645309E-26	5.692940E-26	4.763037E-28	4.280804E-11	267.187	7.858
Si	14	34	33.978576	5.642275E-26	5.692800E-26	5.052576E-28	4.541029E-11	283.429	8.336
P	15	34	33.973636	5.641454E-26	5.692661E-26	5.120648E-28	4.602209E-11	287.247	8.448
S	16	34	33.967867	5.640496E-26	5.692521E-26	5.202504E-28	4.675778E-11	291.839	8.584
Cl	17	34	33.973763	5.641475E-26	5.692382E-26	5.090654E-28	4.575252E-11	285.565	8.399
Ar	18	34	33.980271	5.642556E-26	5.692242E-26	4.968633E-28	4.465584E-11	278.720	8.198
Al	13	35	34.999860	5.811863E-26	5.860432E-26	4.856966E-28	4.365223E-11	272.456	7.784
Si	14	35	34.984584	5.809326E-26	5.860293E-26	5.096694E-28	4.580680E-11	285.904	8.169
P	15	35	34.973314	5.807455E-26	5.860154E-26	5.269882E-28	4.736333E-11	295.619	8.446
S	16	35	34.969032	5.806744E-26	5.860014E-26	5.327039E-28	4.787704E-11	298.825	8.538
Cl	17	35	34.968853	5.806714E-26	5.859875E-26	5.316073E-28	4.777848E-11	298.210	8.520
Ar	18	35	34.975258	5.807777E-26	5.859735E-26	5.195771E-28	4.669726E-11	291.461	8.327
K	19	35	34.988010	5.809895E-26	5.859596E-26	4.970071E-28	4.466877E-11	278.801	7.966
Al	13	36	36.006207	5.978971E-26	6.027925E-26	4.895456E-28	4.399816E-11	274.615	7.628
Si	14	36	35.986599	5.975715E-26	6.027786E-26	5.207104E-28	4.679911E-11	292.097	8.114
P	15	36	35.978260	5.974330E-26	6.027646E-26	5.331643E-28	4.791842E-11	299.083	8.308
S	16	36	35.967081	5.972474E-26	6.027507E-26	5.503327E-28	4.946144E-11	308.714	8.575
Cl	17	36	35.968307	5.972677E-26	6.027367E-26	5.469019E-28	4.915309E-11	306.789	8.522
Ar	18	36	35.967545	5.972551E-26	6.027228E-26	5.467724E-28	4.914145E-11	306.717	8.520
K	19	36	35.981292	5.974833E-26	6.027088E-26	5.225501E-28	4.696446E-11	293.129	8.142
Ca	20	36	35.993087	5.976792E-26	6.026949E-26	5.015697E-28	4.507884E-11	281.360	7.816
Al	13	37	37.010678	6.145767E-26	6.195418E-26	4.965104E-28	4.462413E-11	278.	

značka	protonové číslo Z	hmotnostní číslo A	relativní hmotnost A_r	hmotnost m [kg]	součet hmotností částic v atomu $Z m_p + (A - Z) m_n + Z m_e$ [kg]	hmotnostní schodek Δm [kg]	vazebná energie $E_v = \Delta m c^2$		vazebná energie připadající na 1 nukleon E_v / A [MeV]
							[J]	[MeV]	
Al	13	39	39.022970	6.479916E-26	6.530403E-26	5.048756E-28	4.537596E-11	283.214	7.262
Si	14	39	39.002070	6.476445E-26	6.530264E-26	5.381862E-28	4.836976E-11	301.900	7.741
P	15	39	38.986179	6.473807E-26	6.530124E-26	5.631784E-28	5.061595E-11	315.920	8.101
S	16	39	38.975134	6.471973E-26	6.529985E-26	5.801247E-28	5.213901E-11	325.426	8.344
Cl	17	39	38.968008	6.470789E-26	6.529846E-26	5.905633E-28	5.307718E-11	331.282	8.494
Ar	18	39	38.964313	6.470176E-26	6.529706E-26	5.953043E-28	5.350328E-11	333.941	8.563
K	19	39	38.963707	6.470075E-26	6.529567E-26	5.949168E-28	5.346846E-11	333.724	8.557
Ca	20	39	38.970720	6.471239E-26	6.529427E-26	5.818768E-28	5.229648E-11	326.409	8.369
Sc	21	39	38.984790	6.473576E-26	6.529288E-26	5.571179E-28	5.007126E-11	312.520	8.013
Si	14	40	40.005869	6.643130E-26	6.697757E-26	5.462661E-28	4.909594E-11	306.433	7.661
P	15	40	39.991297	6.640710E-26	6.697617E-26	5.690691E-28	5.114538E-11	319.224	7.981
S	16	40	39.975452	6.638079E-26	6.697478E-26	5.939860E-28	5.338480E-11	333.202	8.330
Cl	17	40	39.970415	6.637243E-26	6.697338E-26	6.009543E-28	5.401108E-11	337.111	8.428
Ar	18	40	39.962383	6.635909E-26	6.697199E-26	6.128977E-28	5.508450E-11	343.810	8.595
K	19	40	39.963998	6.636177E-26	6.697059E-26	6.088207E-28	5.471808E-11	341.523	8.538
Ca	20	40	39.962591	6.635944E-26	6.696920E-26	6.097633E-28	5.480279E-11	342.052	8.551
Sc	21	40	39.977967	6.638497E-26	6.696780E-26	5.828355E-28	5.238264E-11	326.947	8.174
Ti	22	40	39.990499	6.640578E-26	6.696641E-26	5.606319E-28	5.038709E-11	314.491	7.862
Si	14	41	41.014560	6.810627E-26	6.865249E-26	5.462229E-28	4.909207E-11	306.409	7.473
P	15	41	40.994335	6.807269E-26	6.865110E-26	5.784120E-28	5.198508E-11	324.465	7.914
S	16	41	40.979582	6.804819E-26	6.864970E-26	6.015157E-28	5.406154E-11	337.426	8.230
Cl	17	41	40.970685	6.803341E-26	6.864831E-26	6.148960E-28	5.526409E-11	344.931	8.413
Ar	18	41	40.964501	6.802315E-26	6.864692E-26	6.237700E-28	5.606165E-11	349.909	8.534
K	19	41	40.961826	6.801870E-26	6.864552E-26	6.268170E-28	5.633550E-11	351.619	8.576
Ca	20	41	40.962278	6.801945E-26	6.864413E-26	6.246713E-28	5.614266E-11	350.415	8.547
Sc	21	41	40.969251	6.803103E-26	6.864273E-26	6.116977E-28	5.497664E-11	343.137	8.369
P	15	42	42.001008	6.974431E-26	7.032603E-26	5.817205E-28	5.228243E-11	326.321	7.770
S	16	42	41.981022	6.971112E-26	7.032463E-26	6.135125E-28	5.513976E-11	344.155	8.194
Cl	17	42	41.973255	6.969822E-26	7.032324E-26	6.250163E-28	5.617367E-11	350.608	8.348
Ar	18	42	41.963046	6.968127E-26	7.032184E-26	6.405743E-28	5.757194E-11	359.336	8.556
K	19	42	41.962403	6.968020E-26	7.032045E-26	6.402472E-28	5.754255E-11	359.152	8.551
Ca	20	42	41.958618	6.967392E-26	7.031905E-26	6.451374E-28	5.798206E-11	361.896	8.617
Sc	21	42	41.965516	6.968537E-26	7.031766E-26	6.322877E-28	5.682718E-11	354.687	8.445
Ti	22	42	41.973031	6.969785E-26	7.031626E-26	6.184150E-28	5.558037E-11	346.905	8.260
P	15	43	43.006190	7.141345E-26	7.200095E-26	5.875038E-28	5.280221E-11	329.566	7.664
S	16	43	42.987155	7.138184E-26	7.199956E-26	6.177179E-28	5.551772E-11	346.514	8.058
Cl	17	43	42.974054	7.136009E-26	7.199816E-26	6.380770E-28	5.734750E-11	357.935	8.324
Ar	18	43	42.965636	7.134611E-26	7.199677E-26	6.506614E-28	5.847853E-11	364.994	8.488
K	19	43	42.960716	7.133794E-26	7.199538E-26	6.574374E-28	5.908753E-11	368.795	8.577
Ca	20	43	42.958767	7.133470E-26	7.199398E-26	6.592790E-28	5.925305E-11	369.828	8.601
Sc	21	43	42.961151	7.133866E-26	7.199259E-26	6.539256E-28	5.877190E-11	366.825	8.531
Ti	22	43	42.968523	7.135090E-26	7.199119E-26	6.402898E-28	5.754637E-11	359.176	8.353
S	16	44	43.990213	7.304746E-26	7.367449E-26	6.270274E-28	5.635441E-11	351.737	7.994
Cl	17	44	43.978281	7.302764E-26	7.367309E-26	6.454469E-28	5.800987E-11	362.069	8.229
Ar	18	44	43.964924	7.300546E-26	7.367170E-26	6.662321E-28	5.987796E-11	373.729	8.494
K	19	44	43.961557	7.299987E-26	7.367030E-26	6.704289E-28	6.025514E-11	376.083	8.547
Ca	20	44	43.955482	7.298979E-26	7.366891E-26	6.791221E-28	6.103645E-11	380.960	8.658
Sc	21	44	43.959403	7.299630E-26	7.366751E-26	6.712165E-28	6.032593E-11	376.525	8.557
Ti	22	44	43.959690	7.299677E-26	7.366612E-26	6.693448E-28	6.015771E-11	375.475	8.534
V	23	44	43.974110	7.302072E-26	7.366472E-26	6.440053E-28	5.788031E-11	361.261	8.210
S	16	45	44.996508	7.471845E-26	7.534941E-26	6.309632E-28	5.670814E-11	353.944	7.865
Cl	17	45	44.980287	7.469151E-26	7.534802E-26	6.565045E-28	5.900369E-11	368.272	8.184
Ar	18	45	44.968040	7.467118E-26	7.534662E-26	6.754464E-28	6.070610E-11	378.898	8.420
K	19	45	44.960699	7.465899E-26	7.534523E-26	6.862409E-28	6.167626E-11	384.953	8.555
Ca	20	45	44.956187	7.465149E-26	7.534383E-26	6.923402E-28	6.222443E-11	388.374	8.631
Sc	21	45	44.955912	7.465104E-26	7.534244E-26	6.914016E-28	6.214008E-11	387.848	8.619
Ti	22	45	44.958126	7.465471E-26	7.534105E-26	6.863310E-28	6.168436E-11	385.004	8.556
V	23	45	44.965776	7.466742E-26	7.533965E-26	6.722330E-28	6.041729E-11	377.095	8.380
Cr	24	45	44.979640	7.469044E-26	7.533826E-26	6.478163E-28	5.822283E-11	363.398	8.076
Cl	17	46	45.984210	7.635857E-26	7.702295E-26	6.643784E-28	5.971135E-11	372.689	8.102
Ar	18	46	45.968094	7.633181E-26	7.702155E-26	6.897449E-28	6.199118E-11	386.919	8.411
K	19	46	45.961977	7.632165E-26	7.702016E-26	6.985082E-28	6.277879E-11	391.834	8.518
Ca	20	46	45.953693	7.630789E-26	7.701876E-26	7.108699E-28	6.388980E-11	398.769	8.669
Sc	21	46	45.955172	7.631035E-26	7.701737E-26	7.070189E-28	6.354369E-11	396.609	8.622
Ti	22	46	45.952632	7.630613E-26	7.701597E-26	7.098426E-28	6.379747E-11	398.192	8.656
V	23	46	45.960200	7.631870E-26	7.701458E-26	6.958794E-28	6.254252E-11	390.360	8.486
Cr	24	46	45.968359	7.633225E-26	7.701318E-26	6.809379E-28	6.119964E-11	381.978	8.304
Ar	18	47	46.972187	7.799914E-26	7.869648E-26	6.973373E-28	6.267355E-11	391.178	8.323
K	19	47	46.961678	7.798169E-26	7.869508E-26	7.133921E-28	6.411649E-11	400.184	8.515
Ca	20	47	46.954546	7.796985E-26	7.869369E-26	7.238412E-28	6.505560E-11	406.045	8.639
Sc	21	47	46.952408	7.796630E-26	7.869229E-26	7.259977E-28	6.524941E-11	407.255	8.665
Ti	22	47	46.951763	7.796523E-26	7.869090E-26	7.256731E-28	6.522025E-11	407.073	8.661
V	23	47	46.954909	7.797045E-26	7.868951E-26	7.190547E-28	6.462541E-11	403.360	8.582
Cr	24	47	46.962900	7.798372E-26	7.868811E-26	7.043905E-28	6.330746E-11	395.134	8.407
K	19	48	47.965514	7.964860E-26	8.037001E-26	7.214123E-28	6.483730E-11	404.683	8.431
Ca	20	48	47.952534	7.962705E-26	8.036862E-26	7.415704E-28	6.664902E-11	415.990	8.666
Sc	21	48	47.952231	7.962654E-26	8.036722E-26	7.406784E-28	6.656885E-11	415.490	8.656
Ti	22	48	47.947946	7.961943E-26	8.036583E-26	7.463995E-28	6.708304E-11	418.699	8.723
V	23	48	47.952254	7.962658E-26	8.036444E-26	7.378522E-28	6.631485E-11	413.905	8.623
Cr	24	48	47.954032	7.962953E-26	8.036304E-26	7.335051E-28	6.592415E-11	411.466	8.572
Mn	25	48	47.968520	7.965359E-26	8.036164E-26	7.080521E-28	6.363655E-11	397.188	8.275
K	19	49	48.967451	8.131236E-26	8.204494E-26	7.325836E-28	6.584133E-11	410.949	8.387
Ca	20	49	48.955674	8.129280E-26	8.204354E-26	7.507447E-28	6.747357E-11	421.137	8.595
Sc	21	49	48.950024	8.128342E-26	8.204215E-26	7.587324E-28	6.819147E-11	425.618	8.686
Ti	22	49	48.947870	8.127984E-26	8.204075E-26	7.609146E-28	6.838759E-11	426.842	8.711
V	23	49	48.948516	8.128091E-26	8.203936E-26	7.584471E-28	6.816582E-11	425.458	8.683
Cr	24	49	48.951336	8.128560E-26	8.203797E-26	7.523703E-28	6.761967E-11	422.049	8.613
Mn	25	49	48.959618	8.129935E-26	8.203657E-26	7.372227E-28	6.625827E-11	413.552	8.440
K	19	50	49.972783	8.298175E-26	8.371987E-26	7.381173E-28	6.633867E-11	414.053	8.281
Ca	20	50	49.957519	8.295640E-26	8.371847E-26	7.620698E-28	6.849142E-11	427.490	8.550
Sc	21	50	49.952188	8.294755E-26	8.371708E-26	7.695279E-28	6.916172E-11	431.674	8.633
Ti	22	50	49.944791	8.293527E-26	8.371568E-26	7.804155E-28	7.014024E-11	437.781	8.756
V	23	50	49.947158	8.293920E-26	8.371429E-26	7.750899E-28	6.966160E-11	434.794	8.696
Cr	24	50	49.946044	8.293735E-26	8.371289E-26	7.755455E-28	6.970256E-11	435.049	

značka	protonové číslo Z	hmotnostní číslo A	relativní hmotnost A_r	hmotnost m [kg]	součet hmotnosti částic v atomu $Z m_p + (A - Z) m_n + Z m_e$ [kg]	hmotnostní schodek Δm [kg]	vazebná energie		vazebná energie připadající na 1 nukleon E_v / A [MeV]
							$E_v = \Delta m c^2$ [J]	[MeV]	
Fe	26	52	51.948114	8.626186E-26	8.705996E-26	7.980963E-28	7.172932E-11	447.699	8.610
Ti	22	53	52.949727	8.792508E-26	8.874046E-26	8.153843E-28	7.328309E-11	457.397	8.630
V	23	53	52.944338	8.791613E-26	8.873907E-26	8.229387E-28	7.396204E-11	461.635	8.710
Cr	24	53	52.940649	8.791001E-26	8.873767E-26	8.276691E-28	7.438719E-11	464.288	8.760
Mn	25	53	52.941290	8.791107E-26	8.873628E-26	8.252105E-28	7.416622E-11	462.909	8.734
Fe	26	53	52.945308	8.791774E-26	8.873489E-26	8.171441E-28	7.344125E-11	458.384	8.649
Co	27	53	52.954219	8.793254E-26	8.873349E-26	8.009525E-28	7.198602E-11	449.301	8.477
Sc	21	54	53.963265	8.960810E-26	9.041679E-26	8.086880E-28	7.268126E-11	453.641	8.401
Ti	22	54	53.951052	8.958782E-26	9.041539E-26	8.275722E-28	7.437848E-11	464.234	8.597
V	23	54	53.946440	8.958016E-26	9.041400E-26	8.338368E-28	7.494152E-11	467.748	8.662
Cr	24	54	53.938880	8.956761E-26	9.041260E-26	8.449950E-28	7.594436E-11	474.007	8.778
Mn	25	54	53.940359	8.957006E-26	9.041121E-26	8.411453E-28	7.559837E-11	471.848	8.738
Fe	26	54	53.939611	8.956882E-26	9.040981E-26	8.409934E-28	7.558471E-11	471.763	8.736
Co	27	54	53.948460	8.958351E-26	9.040842E-26	8.249044E-28	7.413871E-11	462.737	8.569
Ni	28	54	53.957905	8.959920E-26	9.040702E-26	8.078245E-28	7.260365E-11	453.156	8.392
Sc	21	55	54.968244	9.127691E-26	9.209171E-26	8.148080E-28	7.323129E-11	457.074	8.310
Ti	22	55	54.955265	9.125535E-26	9.209032E-26	8.349653E-28	7.504294E-11	468.381	8.516
V	23	55	54.947234	9.124202E-26	9.208892E-26	8.469071E-28	7.611621E-11	475.080	8.638
Cr	24	55	54.940840	9.123140E-26	9.208753E-26	8.561300E-28	7.694512E-11	480.254	8.732
Mn	25	55	54.938045	9.122676E-26	9.208613E-26	8.593758E-28	7.723684E-11	482.074	8.765
Fe	26	55	54.938293	9.122717E-26	9.208474E-26	8.575689E-28	7.707445E-11	481.061	8.747
Co	27	55	54.941999	9.123332E-26	9.208335E-26	8.500209E-28	7.639607E-11	476.827	8.670
Ni	28	55	54.951330	9.124882E-26	9.208195E-26	8.331314E-28	7.487812E-11	467.352	8.497
Ti	22	56	55.958200	9.292077E-26	9.376525E-26	8.444807E-28	7.589814E-11	473.719	8.459
V	23	56	55.950531	9.290803E-26	9.376385E-26	8.558202E-28	7.691729E-11	480.080	8.573
Cr	24	56	55.940653	9.289163E-26	9.376246E-26	8.708281E-28	7.826613E-11	488.499	8.723
Mn	25	56	55.938905	9.288873E-26	9.376106E-26	8.723365E-28	7.840169E-11	489.345	8.738
Fe	26	56	55.934937	9.288214E-26	9.375967E-26	8.775299E-28	7.886846E-11	492.258	8.790
Co	27	56	55.939839	9.289028E-26	9.375827E-26	8.679957E-28	7.801156E-11	486.910	8.695
Ni	28	56	55.942132	9.289408E-26	9.375688E-26	8.627939E-28	7.754404E-11	483.992	8.643
Ti	22	57	56.963989	9.459092E-26	9.544017E-26	8.492555E-28	7.632728E-11	476.397	8.358
V	23	57	56.952561	9.457194E-26	9.543878E-26	8.668370E-28	7.790742E-11	486.260	8.531
Cr	24	57	56.943613	9.455708E-26	9.543738E-26	8.803016E-28	7.911756E-11	493.813	8.663
Mn	25	57	56.938285	9.454824E-26	9.543599E-26	8.877537E-28	7.978732E-11	497.993	8.737
Fe	26	57	56.935394	9.454343E-26	9.543459E-26	8.911603E-28	8.009350E-11	499.904	8.770
Co	27	57	56.936291	9.454492E-26	9.543320E-26	8.882755E-28	7.983422E-11	498.286	8.742
Ni	28	57	56.939794	9.455074E-26	9.543181E-26	8.810654E-28	7.918621E-11	494.241	8.671
Cu	29	57	56.949211	9.456638E-26	9.543041E-26	8.640326E-28	7.765538E-11	484.687	8.503
V	23	58	57.956834	9.623958E-26	9.711371E-26	8.741304E-28	7.856292E-11	490.351	8.454
Cr	24	58	57.944353	9.621885E-26	9.711231E-26	8.934610E-28	8.030027E-11	501.195	8.641
Mn	25	58	57.939982	9.621159E-26	9.711092E-26	8.993255E-28	8.082735E-11	504.485	8.698
Fe	26	58	57.933276	9.620046E-26	9.710952E-26	9.090665E-28	8.170282E-11	509.949	8.792
Co	27	58	57.935753	9.620457E-26	9.710813E-26	9.035582E-28	8.120777E-11	506.859	8.739
Ni	28	58	57.935343	9.620389E-26	9.710673E-26	9.028443E-28	8.114360E-11	506.459	8.732
Cu	29	58	57.944539	9.621916E-26	9.710534E-26	8.861800E-28	7.964589E-11	497.111	8.571
Zn	30	58	57.954592	9.623585E-26	9.710394E-26	8.680919E-28	7.802021E-11	486.964	8.396
V	23	59	58.960207	9.790572E-26	9.878863E-26	8.829174E-28	7.935266E-11	495.280	8.395
Cr	24	59	58.948586	9.788642E-26	9.878724E-26	9.008199E-28	8.096166E-11	505.323	8.565
Mn	25	59	58.940440	9.787289E-26	9.878584E-26	9.129523E-28	8.205206E-11	512.129	8.680
Fe	26	59	58.934875	9.786365E-26	9.878445E-26	9.207982E-28	8.275721E-11	516.530	8.755
Co	27	59	58.933195	9.786086E-26	9.878305E-26	9.221939E-28	8.288266E-11	517.313	8.768
Ni	28	59	58.934347	9.786277E-26	9.878166E-26	9.188869E-28	8.258544E-11	515.458	8.737
Cu	29	59	58.939498	9.787133E-26	9.878027E-26	9.089383E-28	8.169130E-11	509.877	8.642
Zn	30	59	58.949264	9.788754E-26	9.877887E-26	8.913273E-28	8.010850E-11	499.998	8.475
V	23	60	59.965027	9.957426E-26	1.004636E-25	8.893029E-28	7.992656E-11	498.862	8.314
Cr	24	60	59.950076	9.954943E-26	1.004622E-25	9.127347E-28	8.203251E-11	512.007	8.533
Mn	25	60	59.942911	9.953753E-26	1.004608E-25	9.232375E-28	8.297645E-11	517.898	8.632
Fe	26	60	59.934072	9.952286E-26	1.004594E-25	9.365213E-28	8.417034E-11	525.350	8.756
Co	27	60	59.933817	9.952243E-26	1.004580E-25	9.355495E-28	8.408299E-11	524.805	8.747
Ni	28	60	59.930786	9.951740E-26	1.004566E-25	9.391874E-28	8.440996E-11	526.846	8.781
Cu	29	60	59.937365	9.952832E-26	1.004552E-25	9.268687E-28	8.330280E-11	519.935	8.666
Zn	30	60	59.941827	9.953573E-26	1.004538E-25	9.180647E-28	8.251154E-11	514.997	8.583
Cr	24	61	60.954717	1.012177E-25	1.021371E-25	9.194163E-28	8.263302E-11	515.755	8.455
Mn	25	61	60.944653	1.012010E-25	1.021357E-25	9.347343E-28	8.400973E-11	524.348	8.596
Fe	26	61	60.936745	1.011878E-25	1.021343E-25	9.464701E-28	8.506449E-11	530.931	8.704
Co	27	61	60.932476	1.011807E-25	1.021329E-25	9.521652E-28	8.557634E-11	534.126	8.756
Ni	28	61	60.931056	1.011784E-25	1.021315E-25	9.531281E-28	8.566288E-11	534.666	8.765
Cu	29	61	60.933458	1.011824E-25	1.021301E-25	9.477452E-28	8.517909E-11	531.646	8.716
Zn	30	61	60.939511	1.011924E-25	1.021287E-25	9.362996E-28	8.415041E-11	525.226	8.610
Ga	31	61	60.949446	1.012089E-25	1.021273E-25	9.184064E-28	8.254225E-11	515.188	8.446
Cr	24	62	61.956613	1.028814E-25	1.038120E-25	9.306564E-28	8.364322E-11	522.060	8.420
Mn	25	62	61.948428	1.028678E-25	1.038106E-25	9.428532E-28	8.473942E-11	528.902	8.531
Fe	26	62	61.936767	1.028484E-25	1.038092E-25	9.608217E-28	8.635435E-11	538.981	8.693
Co	27	62	61.934051	1.028439E-25	1.038078E-25	9.639386E-28	8.663448E-11	540.730	8.721
Ni	28	62	61.928345	1.028344E-25	1.038064E-25	9.720181E-28	8.736063E-11	545.262	8.795
Cu	29	62	61.932584	1.028415E-25	1.038050E-25	9.635850E-28	8.660270E-11	540.532	8.718
Zn	30	62	61.934330	1.028444E-25	1.038037E-25	9.592911E-28	8.621678E-11	538.123	8.679
Ga	31	62	61.944175	1.028607E-25	1.038023E-25	9.415476E-28	8.462208E-11	528.170	8.519
Mn	25	63	62.950240	1.045313E-25	1.054856E-25	9.542331E-28	8.576219E-11	535.286	8.497
Fe	26	63	62.940369	1.045149E-25	1.054842E-25	9.692295E-28	8.711000E-11	543.698	8.630
Co	27	63	62.933612	1.045037E-25	1.054828E-25	9.790559E-28	8.799316E-11	549.210	8.718
Ni	28	63	62.929669	1.044972E-25	1.054814E-25	9.842075E-28	8.845616E-11	552.100	8.763
Cu	29	63	62.929597	1.044970E-25	1.054800E-25	9.829323E-28	8.834155E-11	551.385	8.752
Zn	30	63	62.933212	1.045030E-25	1.054786E-25	9.755363E-28	8.767683E-11	547.236	8.686
Ga	31	63	62.939294	1.045131E-25	1.054772E-25	9.640412E-28	8.664370E-11	540.787	8.584
Mn	25	64	63.954249	1.061985E-25	1.071605E-25	9.619642E-28	8.645703E-11	539.622	8.432
Fe	26	64	63.941201	1.061768E-25	1.071591E-25	9.822360E-28	8.827897E-11	550.994	8.609
Co	27	64	63.935810	1.061679E-25	1.071577E-25	9.897940E-28	8.895824E-11	555.234	8.676
Ni	28	64	63.927966	1.061549E-25	1.071563E-25	1.001425E-27	9.000355E-11	561.758	8.777
Cu	29	64	63.929764	1.061579E-25	1.071549E-25	9.970439E-28	8.960983E-11	559.301	8.739
Zn	30	64	63.929142	1.061568E-25	1.071535E-25	9.966820E-28	8.957731E-11	559.098	8.736
Ga	31	64	63.936839	1.061696E-25	1.071521E-25	9.825070E-28	8.830333E-11	551.146	8.612
Ge	32	64	63.941653	1.061776E-25	1.071507E-25	9.731181E-28	8.745950E-11	545.879	8.529
Mn	25	65	64.956336	1.078625E-25	1.088354E-25	9.728872E-28			

značka	protonové číslo Z	hmotnostní číslo A	relativní hmotnost A _r	hmotnost m [kg]	součet hmotností částic v atomu Z m _p + (A - Z) m _n + Z m _e [kg]	hmotnostní schodek Δm [kg]	vazebná energie		vazebná energie připadající na 1 nukleon E _v / A [MeV]	
							E _v = Δm c ²			
							[J]	[MeV]		
Fe	26	67	66.950947	1.111746E-25	1.121839E-25	1.009218E-27	9.070397E-11	566.130	8.450	
Co	27	67	66.940890	1.111579E-25	1.121825E-25	1.024524E-27	9.207965E-11	574.716	8.578	
Ni	28	67	66.931569	1.111425E-25	1.121811E-25	1.038606E-27	9.334526E-11	582.615	8.696	
Cu	29	67	66.927730	1.111361E-25	1.121797E-25	1.043586E-27	9.379287E-11	585.409	8.737	
Zn	30	67	66.927127	1.111351E-25	1.121783E-25	1.043193E-27	9.375752E-11	585.188	8.734	
Ga	31	67	66.928202	1.111369E-25	1.121769E-25	1.040014E-27	9.347183E-11	583.405	8.708	
Ge	32	67	66.932734	1.111444E-25	1.121755E-25	1.031094E-27	9.267007E-11	578.401	8.633	
As	33	67	66.939186	1.111551E-25	1.121741E-25	1.018985E-27	9.158182E-11	571.609	8.531	
Fe	26	68	67.953700	1.128398E-25	1.138588E-25	1.019035E-27	9.158631E-11	571.637	8.406	
Co	27	68	67.944873	1.128251E-25	1.138574E-25	1.032298E-27	9.277831E-11	579.077	8.516	
Ni	28	68	67.931869	1.128035E-25	1.138560E-25	1.052497E-27	9.459375E-11	590.408	8.682	
Cu	29	68	67.929611	1.127998E-25	1.138546E-25	1.054852E-27	9.480538E-11	591.729	8.702	
Zn	30	68	67.924844	1.127918E-25	1.138532E-25	1.061373E-27	9.539143E-11	595.387	8.756	
Ga	31	68	67.927980	1.127971E-25	1.138518E-25	1.054771E-27	9.479808E-11	591.683	8.701	
Ge	32	68	67.928094	1.127972E-25	1.138504E-25	1.053187E-27	9.465570E-11	590.794	8.688	
As	33	68	67.936769	1.128116E-25	1.138490E-25	1.037387E-27	9.323571E-11	581.932	8.558	
Se	34	68	67.941798	1.128200E-25	1.138476E-25	1.027642E-27	9.235984E-11	576.465	8.477	
Co	27	69	68.946320	1.144880E-25	1.155323E-25	1.044284E-27	9.385553E-11	585.800	8.490	
Ni	28	69	68.935610	1.144703E-25	1.155309E-25	1.060673E-27	9.532853E-11	594.994	8.623	
Cu	29	69	68.929429	1.144600E-25	1.155295E-25	1.069542E-27	9.612565E-11	599.969	8.695	
Zn	30	69	68.926550	1.144552E-25	1.155281E-25	1.072928E-27	9.642997E-11	601.869	8.723	
Ga	31	69	68.925574	1.144536E-25	1.155267E-25	1.073155E-27	9.645039E-11	601.996	8.725	
Ge	32	69	68.927965	1.144576E-25	1.155254E-25	1.067790E-27	9.596822E-11	598.987	8.681	
As	33	69	68.932274	1.144647E-25	1.155240E-25	1.059240E-27	9.519977E-11	594.190	8.611	
Se	34	69	68.939558	1.144768E-25	1.155226E-25	1.045750E-27	9.398733E-11	586.623	8.502	
Co	27	70	69.951000	1.161564E-25	1.172073E-25	1.050901E-27	9.445025E-11	589.512	8.422	
Ni	28	70	69.936500	1.161323E-25	1.172059E-25	1.073584E-27	9.648891E-11	602.236	8.603	
Cu	29	70	69.932392	1.161255E-25	1.172045E-25	1.079010E-27	9.697660E-11	605.280	8.647	
Zn	30	70	69.925319	1.161137E-25	1.172031E-25	1.089361E-27	9.790686E-11	611.087	8.730	
Ga	31	70	69.926022	1.161149E-25	1.172017E-25	1.086799E-27	9.767664E-11	609.650	8.709	
Ge	32	70	69.924247	1.161119E-25	1.172003E-25	1.088351E-27	9.781614E-11	610.520	8.722	
As	33	70	69.930925	1.161230E-25	1.171989E-25	1.075869E-27	9.669424E-11	603.518	8.622	
Se	34	70	69.933391	1.161271E-25	1.171975E-25	1.070379E-27	9.620090E-11	600.439	8.578	
Co	27	71	70.952900	1.178200E-25	1.188822E-25	1.062134E-27	9.545986E-11	595.814	8.392	
Ni	28	71	70.940736	1.177998E-25	1.188808E-25	1.080938E-27	9.714985E-11	606.362	8.540	
Cu	29	71	70.932677	1.177865E-25	1.188794E-25	1.092926E-27	9.822731E-11	613.087	8.635	
Zn	30	71	70.927722	1.177782E-25	1.188780E-25	1.099760E-27	9.884150E-11	616.920	8.689	
Ga	31	71	70.924701	1.177732E-25	1.188766E-25	1.103381E-27	9.916690E-11	618.951	8.718	
Ge	32	71	70.924951	1.177736E-25	1.188752E-25	1.101571E-27	9.900431E-11	617.936	8.703	
As	33	71	70.927112	1.177772E-25	1.188738E-25	1.096588E-27	9.855638E-11	615.141	8.664	
Se	34	71	70.932242	1.177857E-25	1.188724E-25	1.086675E-27	9.766552E-11	609.580	8.586	
Br	35	71	70.938740	1.177965E-25	1.188710E-25	1.074490E-27	9.657037E-11	602.745	8.489	
Kr	36	71	70.949626	1.178146E-25	1.188696E-25	1.055019E-27	9.482042E-11	591.823	8.336	
Ni	28	72	71.942093	1.194626E-25	1.205557E-25	1.093074E-27	9.824058E-11	613.170	8.516	
Cu	29	72	71.935820	1.194522E-25	1.205543E-25	1.102095E-27	9.905134E-11	618.230	8.587	
Zn	30	72	71.926858	1.194373E-25	1.205529E-25	1.115582E-27	1.002636E-10	625.796	8.692	
Ga	31	72	71.926366	1.194365E-25	1.205515E-25	1.115004E-27	1.002116E-10	625.472	8.687	
Ge	32	72	71.922076	1.194294E-25	1.205501E-25	1.120734E-27	1.007266E-10	628.686	8.732	
As	33	72	71.926752	1.194372E-25	1.205487E-25	1.111574E-27	9.990329E-11	623.547	8.660	
Se	34	72	71.927112	1.194378E-25	1.205473E-25	1.109582E-27	9.972421E-11	622.430	8.645	
Br	35	72	71.936645	1.194536E-25	1.205460E-25	1.092358E-27	9.817627E-11	612.768	8.511	
Kr	36	72	71.942092	1.194626E-25	1.205446E-25	1.081918E-27	9.723793E-11	606.911	8.429	
Cu	29	73	72.936675	1.211142E-25	1.222292E-25	1.115063E-27	1.002169E-10	625.505	8.569	
Zn	30	73	72.929779	1.211027E-25	1.222279E-25	1.125120E-27	1.011208E-10	631.146	8.646	
Ga	31	73	72.925175	1.210951E-25	1.222265E-25	1.131371E-27	1.016826E-10	634.653	8.694	
Ge	32	73	72.923459	1.210922E-25	1.222251E-25	1.132826E-27	1.018133E-10	635.469	8.705	
As	33	73	72.923825	1.210928E-25	1.222237E-25	1.130824E-27	1.016334E-10	634.346	8.690	
Se	34	73	72.926765	1.210977E-25	1.222223E-25	1.124546E-27	1.016092E-10	630.824	8.641	
Br	35	73	72.931692	1.211059E-25	1.222209E-25	1.114971E-27	1.002086E-10	625.453	8.568	
Kr	36	73	72.939289	1.211185E-25	1.222195E-25	1.100961E-27	9.894940E-11	617.594	8.460	
Cu	29	74	73.939875	1.227800E-25	1.239042E-25	1.124139E-27	1.010326E-10	630.596	8.522	
Zn	30	74	73.929459	1.227627E-25	1.239028E-25	1.140041E-27	1.024618E-10	639.516	8.642	
Ga	31	74	73.926946	1.227586E-25	1.239014E-25	1.142819E-27	1.027114E-10	641.074	8.663	
Ge	32	74	73.921178	1.227490E-25	1.239000E-25	1.151002E-27	1.034469E-10	645.665	8.725	
As	33	74	73.923929	1.227536E-25	1.238986E-25	1.145040E-27	1.029110E-10	642.320	8.680	
Se	34	74	73.922476	1.227511E-25	1.238972E-25	1.146056E-27	1.030024E-10	642.891	8.688	
Br	35	74	73.929891	1.227635E-25	1.238958E-25	1.132350E-27	1.017705E-10	635.202	8.584	
Kr	36	74	73.933084	1.227688E-25	1.238944E-25	1.125652E-27	1.011686E-10	631.445	8.533	
Rb	37	74	73.944265	1.227873E-25	1.238930E-25	1.105692E-27	9.937466E-11	620.248	8.382	
Cu	29	75	74.941900	1.244439E-25	1.255791E-25	1.135164E-27	1.020235E-10	636.781	8.490	
Zn	30	75	74.932937	1.244291E-25	1.255777E-25	1.148654E-27	1.032358E-10	644.348	8.591	
Ga	31	75	74.926500	1.244184E-25	1.255763E-25	1.157947E-27	1.040711E-10	649.561	8.661	
Ge	32	75	74.922859	1.244123E-25	1.255749E-25	1.162599E-27	1.044892E-10	652.170	8.696	
As	33	75	74.921596	1.244102E-25	1.255735E-25	1.163301E-27	1.045523E-10	652.564	8.701	
Se	34	75	74.922523	1.244118E-25	1.255721E-25	1.160367E-27	1.042886E-10	650.918	8.679	
Br	35	75	74.925776	1.244172E-25	1.255707E-25	1.153571E-27	1.036778E-10	647.106	8.628	
Kr	36	75	74.930946	1.244257E-25	1.255693E-25	1.143592E-27	1.027809E-10	641.508	8.553	
Rb	37	75	74.938570	1.244384E-25	1.255679E-25	1.129537E-27	1.015177E-10	633.624	8.448	
Sr	38	75	74.949950	1.244573E-25	1.255665E-25	1.109246E-27	9.969407E-11	622.242	8.297	
Cu	29	76	75.945275	1.261101E-25	1.272540E-25	1.143949E-27	1.028130E-10	641.708	8.444	
Zn	30	76	75.933294	1.260902E-25	1.272526E-25	1.162450E-27	1.044758E-10	652.086	8.580	
Ga	31	76	75.928828	1.260828E-25	1.272512E-25	1.168471E-27	1.050169E-10	655.464	8.625	
Ge	32	76	75.921403	1.260704E-25	1.272498E-25	1.179406E-27	1.059997E-10	661.598	8.705	
As	33	76	75.922394	1.260721E-25	1.272485E-25	1.176365E-27	1.057264E-10	659.892	8.683	
Se	34	76	75.919214	1.260668E-25	1.272471E-25	1.180251E-27	1.060757E-10	662.073	8.711	
Br	35	76	75.924541	1.260757E-25	1.272457E-25	1.170010E-27	1.051552E-10	656.327	8.636	
Kr	36	76	75.925910	1.260779E-25	1.272443E-25	1.166342E-27	1.048256E-10	654.270	8.609	
Rb	37	76	75.935072	1.260931E-25	1.272429E-25	1.149734E-27	1.033329E-10	644.953	8.486	
Sr	38	76	75.941767	1.261043E-25	1.272415E-25	1.137222E-27	1.022085E-10	637.935	8.394	
Zn	30	77	76.936959	1.277568E-25	1.289276E-25	1.170751E-27	1.052219E-10	656.743	8.529	
Ga	31	77	76.929154	1.277439E-25	1.289262E-25</					

značka	protonové číslo Z	hmotnostní číslo A	relativní hmotnost A _r	hmotnost m [kg]	součet hmotnosti částic v atomu Z m _p + (A - Z) m _n + Z m _e [kg]	hmotnostní schodek Δm [kg]	vazebná energie E _v = Δmc ²		vazebná energie připadající na 1 nukleon E _v / A [MeV]
							[J]	[MeV]	
As	33	79	78.920948	1.310513E-25	1.322732E-25	1.221931E-27	1.098217E-10	685.453	8.677
Se	34	79	78.918499	1.310472E-25	1.322718E-25	1.224603E-27	1.100618E-10	686.952	8.696
Br	35	79	78.918337	1.310470E-25	1.322704E-25	1.223478E-27	1.099607E-10	686.321	8.688
Kr	36	79	78.920082	1.310499E-25	1.322690E-25	1.219185E-27	1.095749E-10	683.912	8.657
Rb	37	79	78.923989	1.310564E-25	1.322677E-25	1.211302E-27	1.088664E-10	679.491	8.601
Sr	38	79	78.929708	1.310658E-25	1.322663E-25	1.200412E-27	1.078876E-10	673.382	8.524
Y	39	79	78.937352	1.310785E-25	1.322649E-25	1.186325E-27	1.066215E-10	665.479	8.424
Zn	30	80	79.944342	1.327507E-25	1.339523E-25	1.201656E-27	1.079995E-10	674.080	8.426
Ga	31	80	79.936516	1.327377E-25	1.339509E-25	1.213258E-27	1.090422E-10	680.588	8.507
Ge	32	80	79.925372	1.327192E-25	1.339496E-25	1.230367E-27	1.105799E-10	690.186	8.627
As	33	80	79.922534	1.327145E-25	1.339482E-25	1.233686E-27	1.108782E-10	692.047	8.651
Se	34	80	79.916521	1.327045E-25	1.339468E-25	1.242276E-27	1.116502E-10	696.866	8.711
Br	35	80	79.918529	1.327078E-25	1.339454E-25	1.237547E-27	1.112252E-10	694.213	8.678
Kr	36	80	79.916379	1.327043E-25	1.339440E-25	1.239723E-27	1.114207E-10	695.434	8.693
Rb	37	80	79.922519	1.327144E-25	1.339426E-25	1.228132E-27	1.103790E-10	688.932	8.612
Sr	38	80	79.924521	1.327178E-25	1.339412E-25	1.223413E-27	1.099549E-10	686.285	8.579
Y	39	80	79.934280	1.327340E-25	1.339398E-25	1.205814E-27	1.083731E-10	676.412	8.455
Zr	40	80	79.940400	1.327441E-25	1.339384E-25	1.194256E-27	1.073344E-10	669.929	8.374
Ga	31	81	80.937752	1.344003E-25	1.356259E-25	1.225593E-27	1.101508E-10	687.507	8.488
Ge	32	81	80.928820	1.343855E-25	1.356245E-25	1.239030E-27	1.113585E-10	695.045	8.581
As	33	81	80.922132	1.343743E-25	1.356231E-25	1.248742E-27	1.122313E-10	700.493	8.648
Se	34	81	80.917992	1.343675E-25	1.356217E-25	1.254221E-27	1.127238E-10	703.567	8.686
Br	35	81	80.916291	1.343646E-25	1.356203E-25	1.255653E-27	1.128524E-10	704.370	8.696
Kr	36	81	80.916592	1.343651E-25	1.356189E-25	1.253757E-27	1.126821E-10	703.306	8.683
Rb	37	81	80.918996	1.343691E-25	1.356175E-25	1.248371E-27	1.121980E-10	700.285	8.645
Sr	38	81	80.923212	1.343761E-25	1.356161E-25	1.239976E-27	1.114435E-10	695.575	8.587
Y	39	81	80.929127	1.343860E-25	1.356147E-25	1.228758E-27	1.104353E-10	689.283	8.510
Zr	40	81	80.937210	1.343994E-25	1.356133E-25	1.213942E-27	1.091037E-10	680.972	8.407
Ge	32	82	81.929550	1.360472E-25	1.372994E-25	1.252208E-27	1.125428E-10	702.437	8.566
As	33	82	81.924504	1.360388E-25	1.372980E-25	1.259192E-27	1.131705E-10	706.355	8.614
Se	34	82	81.916699	1.360259E-25	1.372966E-25	1.270757E-27	1.142099E-10	712.842	8.693
Br	35	82	81.916804	1.360260E-25	1.372952E-25	1.269188E-27	1.140690E-10	711.962	8.682
Kr	36	82	81.913484	1.360205E-25	1.372938E-25	1.273308E-27	1.144392E-10	714.273	8.711
Rb	37	82	81.918209	1.360284E-25	1.372924E-25	1.264067E-27	1.136087E-10	709.090	8.647
Sr	38	82	81.918402	1.360287E-25	1.372910E-25	1.262352E-27	1.134545E-10	708.127	8.636
Y	39	82	81.926792	1.360426E-25	1.372896E-25	1.247024E-27	1.120769E-10	699.529	8.531
As	33	83	82.924980	1.377002E-25	1.389729E-25	1.272790E-27	1.143926E-10	713.983	8.602
Se	34	83	82.919118	1.376904E-25	1.389715E-25	1.281128E-27	1.151421E-10	718.660	8.659
Br	35	83	82.915180	1.376839E-25	1.389702E-25	1.286273E-27	1.156044E-10	721.546	8.693
Kr	36	83	82.914136	1.376821E-25	1.389688E-25	1.286612E-27	1.156350E-10	721.737	8.696
Rb	37	83	82.915110	1.376838E-25	1.389674E-25	1.283601E-27	1.153643E-10	720.047	8.675
Sr	38	83	82.917557	1.376878E-25	1.389660E-25	1.278143E-27	1.148738E-10	716.986	8.638
Y	39	83	82.922354	1.376958E-25	1.389646E-25	1.268782E-27	1.140324E-10	711.735	8.575
Zr	40	83	82.928654	1.377063E-25	1.389632E-25	1.256927E-27	1.129669E-10	705.084	8.495
Nb	41	83	82.936705	1.377196E-25	1.389618E-25	1.242162E-27	1.116400E-10	696.802	8.395
Se	34	84	83.918462	1.393499E-25	1.406465E-25	1.296606E-27	1.165332E-10	727.343	8.659
Br	35	84	83.916479	1.393466E-25	1.406451E-25	1.298505E-27	1.167038E-10	728.408	8.672
Kr	36	84	83.911507	1.393383E-25	1.406437E-25	1.305367E-27	1.173205E-10	732.257	8.717
Rb	37	84	83.914385	1.393431E-25	1.406423E-25	1.299193E-27	1.167657E-10	728.794	8.676
Sr	38	84	83.913425	1.393415E-25	1.406409E-25	1.299392E-27	1.167835E-10	728.905	8.677
Y	39	84	83.920388	1.393531E-25	1.406395E-25	1.286435E-27	1.156190E-10	721.637	8.591
Se	34	85	84.922245	1.410167E-25	1.423214E-25	1.304713E-27	1.172618E-10	731.891	8.610
Br	35	85	84.915608	1.410057E-25	1.423200E-25	1.314339E-27	1.181269E-10	737.290	8.674
Kr	36	85	84.912527	1.410006E-25	1.423186E-25	1.318061E-27	1.184614E-10	739.378	8.699
Rb	37	85	84.911790	1.409993E-25	1.423172E-25	1.317891E-27	1.184461E-10	739.283	8.697
Sr	38	85	84.912933	1.410012E-25	1.423158E-25	1.314598E-27	1.181502E-10	737.436	8.676
Y	39	85	84.916433	1.410070E-25	1.423144E-25	1.307391E-27	1.175025E-10	733.393	8.628
Zr	40	85	84.921471	1.410154E-25	1.423130E-25	1.297631E-27	1.166252E-10	727.917	8.564
Nb	41	85	84.927912	1.410261E-25	1.423116E-25	1.285540E-27	1.155386E-10	721.135	8.484
Se	34	86	85.924272	1.426806E-25	1.439963E-25	1.315737E-27	1.182525E-10	738.074	8.582
Br	35	86	85.918798	1.426715E-25	1.439949E-25	1.323432E-27	1.189441E-10	742.391	8.632
Kr	36	86	85.910611	1.426579E-25	1.439935E-25	1.335632E-27	1.200406E-10	749.235	8.712
Rb	37	86	85.911167	1.426588E-25	1.439921E-25	1.333313E-27	1.198322E-10	747.934	8.697
Sr	38	86	85.909260	1.426557E-25	1.439908E-25	1.335085E-27	1.199915E-10	748.928	8.708
Y	39	86	85.914886	1.426650E-25	1.439894E-25	1.324349E-27	1.190266E-10	742.906	8.638
Zr	40	86	85.916474	1.426676E-25	1.439880E-25	1.320318E-27	1.186642E-10	740.644	8.612
Nb	41	86	85.925038	1.426819E-25	1.439866E-25	1.304701E-27	1.172607E-10	731.884	8.510
Mo	42	86	85.930696	1.426913E-25	1.439852E-25	1.293912E-27	1.162910E-10	725.831	8.440
Se	34	87	86.928521	1.443482E-25	1.456713E-25	1.323068E-27	1.189114E-10	742.187	8.531
Br	35	87	86.920711	1.443352E-25	1.456699E-25	1.334642E-27	1.199517E-10	748.680	8.606
Kr	36	87	86.913355	1.443230E-25	1.456685E-25	1.345463E-27	1.209242E-10	754.750	8.675
Rb	37	87	86.909181	1.443161E-25	1.456671E-25	1.351000E-27	1.214219E-10	757.856	8.711
Sr	38	87	86.908877	1.443156E-25	1.456657E-25	1.350110E-27	1.213418E-10	757.356	8.705
Y	39	87	86.910876	1.443189E-25	1.456643E-25	1.345396E-27	1.209182E-10	754.712	8.675
Zr	40	87	86.914816	1.443254E-25	1.456629E-25	1.337458E-27	1.202047E-10	750.259	8.624
Nb	41	87	86.920361	1.443346E-25	1.456615E-25	1.326856E-27	1.192519E-10	744.312	8.555
Mo	42	87	86.927327	1.443462E-25	1.456601E-25	1.313895E-27	1.180870E-10	737.041	8.472
Se	34	88	87.931424	1.460135E-25	1.473462E-25	1.332637E-27	1.197714E-10	747.554	8.495
Br	35	88	87.924066	1.460013E-25	1.473448E-25	1.343460E-27	1.207442E-10	753.626	8.564
Kr	36	88	87.914447	1.459854E-25	1.473434E-25	1.358038E-27	1.220544E-10	761.804	8.657
Rb	37	88	87.911316	1.459802E-25	1.473420E-25	1.361843E-27	1.223964E-10	763.938	8.681
Sr	38	88	87.905612	1.459707E-25	1.473406E-25	1.369920E-27	1.231222E-10	768.469	8.733
Y	39	88	87.909501	1.459771E-25	1.473392E-25	1.362067E-27	1.224165E-10	764.064	8.683
Zr	40	88	87.910227	1.459783E-25	1.473378E-25	1.359467E-27	1.221828E-10	762.605	8.666
Nb	41	88	87.918332	1.459918E-25	1.473364E-25	1.344614E-27	1.208478E-10	754.273	8.571
Mo	42	88	87.921953	1.459978E-25	1.473350E-25	1.337206E-27	1.201821E-10	750.118	8.524
Br	35	89	88.926385	1.476657E-25	1.490197E-25	1.353997E-27	1.216912E-10	759.537	8.534
Kr	36	89	88.917631	1.476512E-25	1.490183E-25	1.367140E-27	1.228724E-10	766.909	8.617
Rb	37	89	88.912278	1.476423E-25	1.490169E-25	1.374634E-27	1.235459E-10	771.113	8.664
Sr	38	89	88.907451	1.476343E-25	1.490155E-25	1.381255E-27	1.241410E-10	774.827	8.706
Y	39	89	88.905848	1.476316E-25	1.490141E-25	1.382521E-27	1.242548E-10	775.538	8.714
Zr	40	89	88.908890	1.476367E-25	1.490127E-25	1.376077E-27	1.236756E-10	771.922	8.673
Nb	41	89	88.913418	1.476442E-25	1.490113E-25	1.367162E-27	1.228744E-10	766.922	8.617
Mo	42	89	88.919480	1.476543E-25	1.490100E-25				

značka	protonové číslo Z	hmotnostní číslo A	relativní hmotnost A_r	hmotnost m [kg]	součet hmotnosti částic v atomu $Z m_p + (A-Z) m_n + Z m_e$ [kg]	hmotnostní schodek Δm [kg]	vazebná energie		vazebná energie připadající na 1 nukleon E_v / A [MeV]
							$E_v = \Delta m c^2$ [J]	[MeV]	
Nb	41	91	90.906996	1.509546E-25	1.523612E-25	1.406603E-27	1.264191E-10	789.046	8.671
Mo	42	91	90.911750	1.509625E-25	1.523598E-25	1.397314E-27	1.255843E-10	783.836	8.614
Tc	43	91	90.918428	1.509736E-25	1.523584E-25	1.384831E-27	1.244624E-10	776.833	8.537
Br	35	92	91.939259	1.526687E-25	1.540445E-25	1.375786E-27	1.236495E-10	771.759	8.389
Kr	36	92	91.926156	1.526470E-25	1.540431E-25	1.396148E-27	1.254796E-10	783.182	8.513
Rb	37	92	91.919729	1.526363E-25	1.540417E-25	1.405427E-27	1.263134E-10	788.387	8.569
Sr	38	92	91.911038	1.526219E-25	1.540403E-25	1.418464E-27	1.274852E-10	795.700	8.649
Y	39	92	91.908949	1.526184E-25	1.540389E-25	1.420537E-27	1.276715E-10	796.863	8.662
Zr	40	92	91.905041	1.526119E-25	1.540375E-25	1.425633E-27	1.281295E-10	799.721	8.693
Nb	41	92	91.907194	1.526155E-25	1.540361E-25	1.420663E-27	1.276828E-10	796.933	8.662
Mo	42	92	91.906811	1.526148E-25	1.540347E-25	1.419904E-27	1.276146E-10	796.508	8.658
Tc	43	92	91.915260	1.526289E-25	1.540333E-25	1.404479E-27	1.262283E-10	787.855	8.564
Kr	36	93	92.931274	1.543160E-25	1.557180E-25	1.402038E-27	1.260089E-10	786.486	8.457
Rb	37	93	92.922042	1.543007E-25	1.557166E-25	1.415974E-27	1.272614E-10	794.303	8.541
Sr	38	93	92.914026	1.542874E-25	1.557152E-25	1.427891E-27	1.283324E-10	800.988	8.613
Y	39	93	92.909583	1.542800E-25	1.557138E-25	1.433874E-27	1.288702E-10	804.344	8.649
Zr	40	93	92.906476	1.542748E-25	1.557125E-25	1.437638E-27	1.292085E-10	806.456	8.672
Nb	41	93	92.906378	1.542747E-25	1.557111E-25	1.436406E-27	1.290977E-10	805.765	8.664
Mo	42	93	92.906813	1.542754E-25	1.557097E-25	1.434290E-27	1.289075E-10	804.578	8.651
Tc	43	93	92.910249	1.542811E-25	1.557083E-25	1.427189E-27	1.282693E-10	800.594	8.609
Ru	44	93	92.917052	1.542924E-25	1.557069E-25	1.414498E-27	1.271287E-10	793.475	8.532
Rb	37	94	93.926405	1.559684E-25	1.573916E-25	1.423118E-27	1.279034E-10	798.310	8.493
Sr	38	94	93.915361	1.559501E-25	1.573902E-25	1.440061E-27	1.294263E-10	807.815	8.594
Y	39	94	93.911595	1.559439E-25	1.573888E-25	1.444920E-27	1.298630E-10	810.541	8.623
Zr	40	94	93.906315	1.559351E-25	1.573874E-25	1.452293E-27	1.305256E-10	814.677	8.667
Nb	41	94	93.907284	1.559367E-25	1.573860E-25	1.449290E-27	1.302557E-10	812.992	8.649
Mo	42	94	93.905088	1.559330E-25	1.573846E-25	1.451542E-27	1.304580E-10	814.255	8.662
Tc	43	94	93.909657	1.559406E-25	1.573832E-25	1.442560E-27	1.296509E-10	809.217	8.609
Ru	44	94	93.911360	1.559435E-25	1.573818E-25	1.438338E-27	1.292714E-10	806.849	8.583
Rb	37	95	94.929303	1.576338E-25	1.590665E-25	1.432694E-27	1.287641E-10	803.682	8.460
Sr	38	95	94.919359	1.576173E-25	1.590651E-25	1.447812E-27	1.301228E-10	812.163	8.549
Y	39	95	94.912821	1.576064E-25	1.590637E-25	1.457274E-27	1.309733E-10	817.471	8.605
Zr	40	95	94.908043	1.575985E-25	1.590623E-25	1.463813E-27	1.315610E-10	821.139	8.644
Nb	41	95	94.906836	1.575965E-25	1.590609E-25	1.464423E-27	1.316158E-10	821.481	8.647
Mo	42	95	94.905842	1.575948E-25	1.590595E-25	1.464678E-27	1.316387E-10	821.624	8.649
Tc	43	95	94.907657	1.575979E-25	1.590581E-25	1.460270E-27	1.312425E-10	819.151	8.623
Ru	44	95	94.910413	1.576024E-25	1.590567E-25	1.454299E-27	1.307059E-10	815.802	8.587
Rh	45	95	94.915899	1.576115E-25	1.590553E-25	1.443795E-27	1.297618E-10	809.910	8.525
Rb	37	96	95.934273	1.593026E-25	1.607414E-25	1.438830E-27	1.293156E-10	807.124	8.408
Sr	38	96	95.921697	1.592817E-25	1.607400E-25	1.458318E-27	1.310671E-10	818.056	8.521
Y	39	96	95.915891	1.592721E-25	1.607386E-25	1.466563E-27	1.318081E-10	822.682	8.570
Zr	40	96	95.908273	1.592594E-25	1.607372E-25	1.477819E-27	1.328197E-10	828.996	8.635
Nb	41	96	95.908101	1.592591E-25	1.607358E-25	1.476711E-27	1.327202E-10	828.374	8.629
Mo	42	96	95.904679	1.592534E-25	1.607344E-25	1.480997E-27	1.331054E-10	830.779	8.654
Tc	43	96	95.907871	1.592587E-25	1.607330E-25	1.474302E-27	1.325037E-10	827.023	8.615
Ru	44	96	95.907598	1.592583E-25	1.607317E-25	1.473362E-27	1.324192E-10	826.495	8.609
Rh	45	96	95.914461	1.592697E-25	1.607303E-25	1.460571E-27	1.312696E-10	819.320	8.535
Pd	46	96	95.918164	1.592758E-25	1.607289E-25	1.453027E-27	1.305915E-10	815.088	8.491
Rb	37	97	96.937352	1.609682E-25	1.624163E-25	1.448105E-27	1.301492E-10	812.327	8.375
Sr	38	97	96.926153	1.609496E-25	1.624150E-25	1.465307E-27	1.316952E-10	821.977	8.474
Y	39	97	96.918134	1.609363E-25	1.624136E-25	1.477228E-27	1.327666E-10	828.664	8.543
Zr	40	97	96.910953	1.609244E-25	1.624122E-25	1.487757E-27	1.337130E-10	834.571	8.604
Nb	41	97	96.908099	1.609197E-25	1.624108E-25	1.491103E-27	1.340136E-10	836.447	8.623
Mo	42	97	96.906021	1.609162E-25	1.624094E-25	1.493157E-27	1.341983E-10	837.600	8.635
Tc	43	97	96.906365	1.609168E-25	1.624080E-25	1.491192E-27	1.340216E-10	836.497	8.624
Ru	44	97	96.907555	1.609188E-25	1.624066E-25	1.487822E-27	1.337188E-10	834.607	8.604
Rh	45	97	96.911337	1.609250E-25	1.624052E-25	1.480147E-27	1.330290E-10	830.302	8.560
Pd	46	97	96.916479	1.609336E-25	1.624038E-25	1.470213E-27	1.321362E-10	824.729	8.502
Ag	47	97	96.923972	1.609460E-25	1.624024E-25	1.456376E-27	1.308925E-10	816.967	8.422
Rb	37	98	97.941791	1.626361E-25	1.640913E-25	1.455123E-27	1.307799E-10	816.264	8.329
Sr	38	98	97.928453	1.626140E-25	1.640899E-25	1.475876E-27	1.326451E-10	827.906	8.448
Y	39	98	97.922203	1.626036E-25	1.640885E-25	1.484859E-27	1.334525E-10	832.945	8.499
Zr	40	98	97.912735	1.625879E-25	1.640871E-25	1.499187E-27	1.347402E-10	840.982	8.581
Nb	41	98	97.910328	1.625839E-25	1.640857E-25	1.501788E-27	1.349740E-10	842.442	8.596
Mo	42	98	97.905408	1.625757E-25	1.640843E-25	1.508564E-27	1.355830E-10	846.242	8.635
Tc	43	98	97.907216	1.625787E-25	1.640829E-25	1.504167E-27	1.351878E-10	843.776	8.610
Ru	44	98	97.905287	1.625755E-25	1.640815E-25	1.505976E-27	1.353504E-10	844.790	8.620
Rh	45	98	97.910708	1.625845E-25	1.640801E-25	1.495579E-27	1.344160E-10	838.959	8.561
Pd	46	98	97.912721	1.625879E-25	1.640787E-25	1.490842E-27	1.339902E-10	836.301	8.534
Ag	47	98	97.921566	1.626026E-25	1.640773E-25	1.474760E-27	1.325448E-10	827.280	8.442
Cd	48	98	97.927396	1.626122E-25	1.640759E-25	1.463685E-27	1.315495E-10	821.067	8.378
Rb	37	99	98.945379	1.643026E-25	1.657662E-25	1.463552E-27	1.315375E-10	820.993	8.293
Sr	38	99	98.933241	1.642825E-25	1.657648E-25	1.482314E-27	1.332237E-10	831.517	8.399
Y	39	99	98.924636	1.642682E-25	1.657634E-25	1.495207E-27	1.343825E-10	838.750	8.472
Zr	40	99	98.916512	1.642547E-25	1.657620E-25	1.507303E-27	1.354697E-10	845.535	8.541
Nb	41	99	98.911618	1.642466E-25	1.657606E-25	1.514035E-27	1.360747E-10	849.311	8.579
Mo	42	99	98.907712	1.642401E-25	1.657592E-25	1.519127E-27	1.365323E-10	852.168	8.608
Tc	43	99	98.906255	1.642377E-25	1.657578E-25	1.520152E-27	1.366245E-10	852.743	8.614
Ru	44	99	98.905939	1.642372E-25	1.657564E-25	1.519281E-27	1.365462E-10	852.254	8.609
Rh	45	99	98.908132	1.642408E-25	1.657550E-25	1.514245E-27	1.360936E-10	849.429	8.580
Pd	46	99	98.911768	1.642468E-25	1.657536E-25	1.506813E-27	1.354256E-10	845.260	8.538
Ag	47	99	98.917597	1.642565E-25	1.657523E-25	1.495739E-27	1.344303E-10	839.048	8.475
Sr	38	100	99.935352	1.659465E-25	1.674397E-25	1.493197E-27	1.342018E-10	837.622	8.376
Y	39	100	99.927757	1.659339E-25	1.674383E-25	1.504414E-27	1.352100E-10	843.915	8.439
Zr	40	100	99.917762	1.659173E-25	1.674369E-25	1.519616E-27	1.365763E-10	852.442	8.524
Nb	41	100	99.914182	1.659114E-25	1.674355E-25	1.524167E-27	1.369853E-10	854.995	8.550
Mo	42	100	99.907477	1.659002E-25	1.674342E-25	1.533905E-27	1.378605E-10	860.458	8.605
Tc	43	100	99.907658	1.659005E-25	1.674328E-25	1.532211E-27	1.377082E-10	859.507	8.595
Ru	44	100	99.904219	1.658948E-25	1.674314E-25	1.536525E-27	1.380960E-10	861.928	8.619
Rh	45	100	99.908122	1.659013E-25	1.674300E-25	1.528651E-27	1.373883E-10	857.511	8.575
Pd	46	100	99.908506	1.659020E-25	1.674286E-25	1.526618E-27	1.372056E-10	856.370	8.564
Ag	47	100	99.916104	1.659146E-25	1.674272E-25	1.512606E-27	1.359463E-10	848.510	8.485
Cd	48	100	99.920290	1.659215E-25	1.674258E-25	1.504262E-27	1.351963E-10	843.829	8.438
In	49	100	99.931111	1.659395E-25	1.674244E-25				

značka	protonové číslo Z	hmotnostní číslo A	relativní hmotnost A_r	hmotnost m [kg]	součet hmotností částic v atomu $Z m_p + (A - Z) m_n + Z m_e$ [kg]	hmotnostní schodek Δm [kg]	vazebná energie		vazebná energie připadající na 1 nukleon E_v / A [MeV]
							$E_v = \Delta m c^2$ [J]	[MeV]	
Zr	40	102	101.922981	1.692471E-25	1.707868E-25	1.539726E-27	1.383837E-10	863.723	8.468
Nb	41	102	101.918038	1.692389E-25	1.707854E-25	1.546541E-27	1.389961E-10	867.546	8.505
Mo	42	102	101.910297	1.692260E-25	1.707840E-25	1.557999E-27	1.400260E-10	873.973	8.568
Tc	43	102	101.909215	1.692242E-25	1.707826E-25	1.558402E-27	1.400622E-10	874.199	8.571
Ru	44	102	101.904349	1.692161E-25	1.707812E-25	1.565087E-27	1.406630E-10	877.949	8.607
Rh	45	102	101.906843	1.692203E-25	1.707798E-25	1.559551E-27	1.401654E-10	874.844	8.577
Pd	46	102	101.905609	1.692182E-25	1.707784E-25	1.560206E-27	1.402244E-10	875.212	8.581
Ag	47	102	101.911685	1.692283E-25	1.707770E-25	1.548722E-27	1.391922E-10	868.769	8.517
Cd	48	102	101.914462	1.692329E-25	1.707756E-25	1.542715E-27	1.386523E-10	865.400	8.484
In	49	102	101.924090	1.692489E-25	1.707742E-25	1.525333E-27	1.370901E-10	855.649	8.389
Sn	50	102	101.930295	1.692592E-25	1.707729E-25	1.513635E-27	1.360387E-10	849.087	8.324
Zr	40	103	102.926600	1.709136E-25	1.724617E-25	1.548106E-27	1.391368E-10	868.424	8.431
Nb	41	103	102.919144	1.709012E-25	1.724603E-25	1.559092E-27	1.401242E-10	874.587	8.491
Mo	42	103	102.913207	1.708914E-25	1.724589E-25	1.567556E-27	1.408849E-10	879.334	8.537
Tc	43	103	102.909181	1.708847E-25	1.724575E-25	1.572846E-27	1.413603E-10	882.302	8.566
Ru	44	103	102.906324	1.708799E-25	1.724561E-25	1.576196E-27	1.416615E-10	884.181	8.584
Rh	45	103	102.905504	1.708786E-25	1.724548E-25	1.576163E-27	1.416584E-10	884.162	8.584
Pd	46	103	102.906087	1.708796E-25	1.724534E-25	1.573800E-27	1.414461E-10	882.837	8.571
Ag	47	103	102.908973	1.708843E-25	1.724520E-25	1.567614E-27	1.408901E-10	879.367	8.538
Cd	48	103	102.913419	1.708917E-25	1.724506E-25	1.558836E-27	1.401012E-10	874.443	8.490
In	49	103	102.919914	1.709025E-25	1.724492E-25	1.546656E-27	1.390065E-10	867.610	8.423
Nb	41	104	103.922465	1.725673E-25	1.741353E-25	1.567966E-27	1.409218E-10	879.565	8.457
Mo	42	104	103.913764	1.725528E-25	1.741339E-25	1.581020E-27	1.420950E-10	886.887	8.528
Tc	43	104	103.911447	1.725490E-25	1.741325E-25	1.583471E-27	1.423153E-10	888.262	8.541
Ru	44	104	103.905433	1.725390E-25	1.741311E-25	1.592065E-27	1.430876E-10	893.083	8.587
Rh	45	104	103.906656	1.725410E-25	1.741297E-25	1.588639E-27	1.427798E-10	891.161	8.569
Pd	46	104	103.904036	1.725367E-25	1.741283E-25	1.591595E-27	1.430454E-10	892.819	8.585
Ag	47	104	103.908629	1.725443E-25	1.741269E-25	1.582573E-27	1.422346E-10	887.758	8.536
Cd	48	104	103.909849	1.725463E-25	1.741255E-25	1.579152E-27	1.419271E-10	885.839	8.518
In	49	104	103.918296	1.725604E-25	1.741241E-25	1.563731E-27	1.405411E-10	877.189	8.435
Sn	50	104	103.923143	1.725684E-25	1.741227E-25	1.554288E-27	1.396924E-10	871.892	8.384
Nb	41	105	104.923937	1.742303E-25	1.758102E-25	1.579911E-27	1.419953E-10	886.265	8.441
Mo	42	105	104.916975	1.742187E-25	1.758088E-25	1.590076E-27	1.429089E-10	891.968	8.495
Tc	43	105	104.911661	1.742099E-25	1.758074E-25	1.597506E-27	1.435767E-10	896.135	8.535
Ru	44	105	104.907753	1.742034E-25	1.758060E-25	1.602600E-27	1.440345E-10	898.993	8.562
Rh	45	105	104.905694	1.742000E-25	1.758046E-25	1.604625E-27	1.442165E-10	900.129	8.573
Pd	46	105	104.905085	1.741990E-25	1.758032E-25	1.604241E-27	1.441820E-10	899.913	8.571
Ag	47	105	104.906529	1.742014E-25	1.758018E-25	1.600449E-27	1.438412E-10	897.786	8.550
Cd	48	105	104.909468	1.742062E-25	1.758004E-25	1.594174E-27	1.432772E-10	894.266	8.517
In	49	105	104.914674	1.742149E-25	1.757990E-25	1.584135E-27	1.423750E-10	888.635	8.463
Sn	50	105	104.921349	1.742260E-25	1.757976E-25	1.571655E-27	1.412533E-10	881.634	8.397
Sb	51	105	104.931486	1.742428E-25	1.757962E-25	1.553427E-27	1.396151E-10	871.409	8.299
Mo	42	106	105.918137	1.758812E-25	1.774837E-25	1.602535E-27	1.440287E-10	898.956	8.481
Tc	43	106	105.914358	1.758749E-25	1.774823E-25	1.607415E-27	1.444673E-10	901.694	8.507
Ru	44	106	105.907329	1.758632E-25	1.774809E-25	1.617692E-27	1.453909E-10	907.459	8.561
Rh	45	106	105.907287	1.758632E-25	1.774795E-25	1.616367E-27	1.452719E-10	906.716	8.554
Pd	46	106	105.903486	1.758569E-25	1.774781E-25	1.621285E-27	1.457138E-10	909.474	8.580
Ag	47	106	105.906669	1.758621E-25	1.774767E-25	1.614605E-27	1.451134E-10	905.727	8.545
Cd	48	106	105.906459	1.758618E-25	1.774753E-25	1.613558E-27	1.450194E-10	905.140	8.539
In	49	106	105.913465	1.758734E-25	1.774740E-25	1.600530E-27	1.438484E-10	897.831	8.470
Sn	50	106	105.916881	1.758791E-25	1.774726E-25	1.593464E-27	1.432134E-10	893.868	8.433
Te	52	106	105.937504	1.759133E-25	1.774698E-25	1.556428E-27	1.398848E-10	873.092	8.237
Mo	42	107	106.921693	1.775476E-25	1.791586E-25	1.611019E-27	1.447912E-10	903.715	8.446
Tc	43	107	106.915080	1.775366E-25	1.791572E-25	1.620605E-27	1.456528E-10	909.093	8.496
Ru	44	107	106.909905	1.775281E-25	1.791559E-25	1.627803E-27	1.462997E-10	913.131	8.534
Rh	45	107	106.906748	1.775228E-25	1.791545E-25	1.631650E-27	1.466454E-10	915.289	8.554
Pd	46	107	106.905133	1.775201E-25	1.791531E-25	1.632937E-27	1.467611E-10	916.011	8.561
Ag	47	107	106.905097	1.775201E-25	1.791517E-25	1.631604E-27	1.466412E-10	915.263	8.554
Cd	48	107	106.906618	1.775226E-25	1.791503E-25	1.627683E-27	1.462889E-10	913.063	8.533
In	49	107	106.910295	1.775287E-25	1.791489E-25	1.620182E-27	1.456147E-10	908.856	8.494
Sn	50	107	106.915644	1.775376E-25	1.791475E-25	1.609905E-27	1.446911E-10	903.091	8.440
Tc	43	108	107.918461	1.792028E-25	1.808322E-25	1.629378E-27	1.464412E-10	914.014	8.463
Ru	44	108	107.910173	1.791890E-25	1.808308E-25	1.641746E-27	1.475528E-10	920.952	8.527
Rh	45	108	107.908728	1.791866E-25	1.808294E-25	1.642752E-27	1.476432E-10	921.516	8.533
Pd	46	108	107.903892	1.791786E-25	1.808280E-25	1.649388E-27	1.482396E-10	925.239	8.567
Ag	47	108	107.905956	1.791820E-25	1.808266E-25	1.644566E-27	1.478062E-10	922.534	8.542
Cd	48	108	107.904184	1.791791E-25	1.808252E-25	1.646114E-27	1.479453E-10	923.402	8.550
In	49	108	107.909698	1.791882E-25	1.808238E-25	1.635562E-27	1.469970E-10	917.483	8.495
Sn	50	108	107.911925	1.791919E-25	1.808224E-25	1.630469E-27	1.465393E-10	914.626	8.469
Te	52	108	107.929445	1.792210E-25	1.808196E-25	1.598588E-27	1.436740E-10	896.742	8.303
Tc	43	109	108.919983	1.808659E-25	1.825071E-25	1.641241E-27	1.475073E-10	920.668	8.446
Ru	44	109	108.913203	1.808546E-25	1.825057E-25	1.651103E-27	1.483938E-10	926.201	8.497
Rh	45	109	108.908737	1.808472E-25	1.825043E-25	1.657125E-27	1.489349E-10	929.579	8.528
Pd	46	109	108.905950	1.808426E-25	1.825029E-25	1.660358E-27	1.492255E-10	931.392	8.545
Ag	47	109	108.904752	1.808406E-25	1.825015E-25	1.660953E-27	1.492790E-10	931.726	8.548
Cd	48	109	108.904982	1.808410E-25	1.825001E-25	1.659176E-27	1.491193E-10	930.730	8.539
In	49	109	108.907151	1.808446E-25	1.824987E-25	1.654181E-27	1.486704E-10	927.928	8.513
Sn	50	109	108.911283	1.808514E-25	1.824973E-25	1.645924E-27	1.479283E-10	923.296	8.471
Sb	51	109	108.918132	1.808628E-25	1.824959E-25	1.633156E-27	1.467807E-10	916.133	8.405
Te	52	109	108.927416	1.808782E-25	1.824946E-25	1.616346E-27	1.452700E-10	906.704	8.318
I	53	109	108.938149	1.808960E-25	1.824932E-25	1.597128E-27	1.435427E-10	895.923	8.219
Tc	43	110	109.923820	1.825328E-25	1.841820E-25	1.649256E-27	1.482277E-10	925.165	8.411
Ru	44	110	109.914136	1.825167E-25	1.841806E-25	1.663943E-27	1.495477E-10	933.404	8.485
Rh	45	110	109.911136	1.825117E-25	1.841792E-25	1.667529E-27	1.498701E-10	935.415	8.504
Pd	46	110	109.905153	1.825018E-25	1.841778E-25	1.676070E-27	1.506376E-10	940.206	8.547
Ag	47	110	109.906107	1.825034E-25	1.841765E-25	1.673091E-27	1.503699E-10	938.535	8.532
Cd	48	110	109.903002	1.824982E-25	1.841751E-25	1.676853E-27	1.507080E-10	940.645	8.551
In	49	110	109.907165	1.825051E-25	1.841737E-25	1.668545E-27	1.499613E-10	935.985	8.509
Sn	50	110	109.907843	1.825062E-25	1.841723E-25	1.666025E-27	1.497349E-10	934.572	8.496
Te	52	110	109.922407	1.825304E-25	1.841695E-25	1.639051E-27	1.473106E-10	919.440	8.359
Xe	54	110	109.944278	1.825667E-25	1.841667E-25	1.599945E-27	1.437958E-10	897.503	8.159
Tc	43	111	110.925693	1.841964E-25	1.858570E-25	1.660535E-27	1.492415E-10	931.492	8.392
Ru	44	111	110.917696						

značka	protonové číslo Z	hmotnostní číslo A	relativní hmotnost A_r	hmotnost m [kg]	součet hmotnosti částic v atomu $Z m_p + (A-Z) m_n + Z m_e$ [kg]	hmotnostní schodek Δm [kg]	vazebná energie $E_v = \Delta m c^2$		vazebná energie připadající na 1 nukleon E_v / A [MeV]
							[J]	[MeV]	
Sb	51	112	111.912398	1.858349E-25	1.875207E-25	1.685843E-27	1.515160E-10	945.689	8.444
Te	52	112	111.917014	1.858426E-25	1.875193E-25	1.676784E-27	1.507018E-10	940.607	8.398
Xe	54	112	111.935623	1.858735E-25	1.875165E-25	1.643093E-27	1.476739E-10	921.708	8.230
Ru	44	113	112.922487	1.875122E-25	1.892054E-25	1.693241E-27	1.521809E-10	949.838	8.406
Rh	45	113	112.915531	1.875006E-25	1.892040E-25	1.703398E-27	1.530938E-10	955.536	8.456
Pd	46	113	112.910153	1.874917E-25	1.892026E-25	1.710933E-27	1.537710E-10	959.763	8.493
Ag	47	113	112.906567	1.874857E-25	1.892012E-25	1.715494E-27	1.541809E-10	962.321	8.516
Cd	48	113	112.904402	1.874821E-25	1.891998E-25	1.717694E-27	1.543786E-10	963.556	8.527
In	49	113	112.904058	1.874816E-25	1.891984E-25	1.716870E-27	1.543046E-10	963.094	8.523
Sn	50	113	112.905171	1.874834E-25	1.891971E-25	1.713628E-27	1.540132E-10	961.275	8.507
Sb	51	113	112.909372	1.874904E-25	1.891957E-25	1.705257E-27	1.532609E-10	956.579	8.465
Te	52	113	112.915891	1.875012E-25	1.891943E-25	1.693037E-27	1.521626E-10	949.724	8.405
I	53	113	112.923641	1.875141E-25	1.891929E-25	1.678774E-27	1.508807E-10	941.723	8.334
Xe	54	113	112.933341	1.875302E-25	1.891915E-25	1.661271E-27	1.493076E-10	931.905	8.247
Cs	55	113	112.944493	1.875487E-25	1.891901E-25	1.641358E-27	1.475179E-10	920.734	8.148
Rh	45	114	113.918806	1.891666E-25	1.908790E-25	1.712347E-27	1.538981E-10	960.556	8.426
Pd	46	114	113.910363	1.891526E-25	1.908776E-25	1.724973E-27	1.550329E-10	967.639	8.488
Ag	47	114	113.908804	1.891500E-25	1.908762E-25	1.726167E-27	1.551402E-10	968.309	8.494
Cd	48	114	113.903359	1.891410E-25	1.908748E-25	1.733814E-27	1.558275E-10	972.599	8.532
In	49	114	113.904914	1.891435E-25	1.908734E-25	1.729837E-27	1.554700E-10	970.368	8.512
Sn	50	114	113.902779	1.891400E-25	1.908720E-25	1.731988E-27	1.556633E-10	971.574	8.523
Sb	51	114	113.909269	1.891508E-25	1.908706E-25	1.719816E-27	1.545694E-10	964.746	8.463
Te	52	114	113.912089	1.891555E-25	1.908692E-25	1.713739E-27	1.540231E-10	961.337	8.433
Xe	54	114	113.927980	1.891818E-25	1.908664E-25	1.684561E-27	1.514008E-10	944.970	8.289
Ba	56	114	113.950675	1.892195E-25	1.908636E-25	1.644086E-27	1.477631E-10	922.265	8.090
Ru	44	115	114.928686	1.908435E-25	1.925553E-25	1.711724E-27	1.538421E-10	960.207	8.350
Rh	45	115	114.920334	1.908297E-25	1.925539E-25	1.724198E-27	1.549632E-10	967.204	8.410
Pd	46	115	114.913684	1.908186E-25	1.925525E-25	1.733847E-27	1.558304E-10	972.617	8.458
Ag	47	115	114.908763	1.908105E-25	1.925511E-25	1.740624E-27	1.564395E-10	976.418	8.491
Cd	48	115	114.905431	1.908049E-25	1.925497E-25	1.744762E-27	1.568113E-10	978.739	8.511
In	49	115	114.903878	1.908024E-25	1.925483E-25	1.745945E-27	1.569177E-10	979.403	8.517
Sn	50	115	114.903342	1.908015E-25	1.925469E-25	1.745440E-27	1.568724E-10	979.120	8.514
Sb	51	115	114.906598	1.908069E-25	1.925455E-25	1.738640E-27	1.562611E-10	975.305	8.481
Te	52	115	114.911902	1.908157E-25	1.925441E-25	1.728438E-27	1.553442E-10	969.582	8.431
I	53	115	114.918048	1.908259E-25	1.925427E-25	1.716837E-27	1.543016E-10	963.075	8.375
Xe	54	115	114.926294	1.908396E-25	1.925413E-25	1.701750E-27	1.529457E-10	954.612	8.301
Rh	45	116	115.924062	1.924964E-25	1.942288E-25	1.732396E-27	1.557000E-10	971.803	8.378
Pd	46	116	115.914159	1.924800E-25	1.942274E-25	1.747447E-27	1.570527E-10	980.246	8.450
Ag	47	116	115.911360	1.924753E-25	1.942260E-25	1.750699E-27	1.573450E-10	982.070	8.466
Cd	48	116	115.904756	1.924644E-25	1.942246E-25	1.760271E-27	1.582053E-10	987.440	8.512
In	49	116	115.905260	1.924652E-25	1.942232E-25	1.758040E-27	1.580047E-10	986.188	8.502
Sn	50	116	115.901741	1.924593E-25	1.942218E-25	1.762489E-27	1.584046E-10	988.684	8.523
Sb	51	116	115.906794	1.924677E-25	1.942204E-25	1.752703E-27	1.575251E-10	983.195	8.476
Te	52	116	115.908460	1.924705E-25	1.942190E-25	1.748542E-27	1.571511E-10	980.860	8.456
I	53	116	115.916809	1.924844E-25	1.942176E-25	1.733284E-27	1.557798E-10	972.301	8.382
Xe	54	116	115.921581	1.924923E-25	1.942163E-25	1.723964E-27	1.549422E-10	967.073	8.337
Pd	46	117	116.917841	1.941466E-25	1.959023E-25	1.755720E-27	1.577962E-10	984.887	8.418
Ag	47	117	116.911685	1.941364E-25	1.959009E-25	1.764549E-27	1.585897E-10	989.839	8.460
Cd	48	117	116.907219	1.941290E-25	1.958995E-25	1.770570E-27	1.591309E-10	993.217	8.489
In	49	117	116.904514	1.941245E-25	1.958982E-25	1.773667E-27	1.594093E-10	994.954	8.504
Sn	50	117	116.902952	1.941219E-25	1.958968E-25	1.774866E-27	1.595170E-10	995.627	8.510
Sb	51	117	116.904836	1.941250E-25	1.958954E-25	1.770343E-27	1.591105E-10	993.089	8.488
Te	52	117	116.908645	1.941313E-25	1.958940E-25	1.762623E-27	1.584167E-10	988.759	8.451
I	53	117	116.913650	1.941397E-25	1.958926E-25	1.752917E-27	1.575443E-10	983.314	8.404
Xe	54	117	116.920359	1.941508E-25	1.958912E-25	1.740382E-27	1.564178E-10	976.283	8.344
Cs	55	117	116.928671	1.941646E-25	1.958898E-25	1.725185E-27	1.550519E-10	967.758	8.271
Pd	46	118	117.918984	1.958091E-25	1.975773E-25	1.768210E-27	1.589188E-10	991.893	8.406
Ag	47	118	117.914583	1.958017E-25	1.975759E-25	1.774124E-27	1.594504E-10	995.211	8.434
Cd	48	118	117.906915	1.957890E-25	1.975745E-25	1.785463E-27	1.604694E-10	1001.572	8.488
In	49	118	117.906354	1.957881E-25	1.975731E-25	1.784999E-27	1.604277E-10	1001.311	8.486
Sn	50	118	117.901603	1.957802E-25	1.975717E-25	1.791494E-27	1.610114E-10	1004.954	8.517
Sb	51	118	117.905529	1.957867E-25	1.975703E-25	1.783581E-27	1.603002E-10	1000.515	8.479
Te	52	118	117.905828	1.957872E-25	1.975689E-25	1.781690E-27	1.601303E-10	999.455	8.470
I	53	118	117.913074	1.957992E-25	1.975675E-25	1.768262E-27	1.589235E-10	991.922	8.406
Xe	54	118	117.916179	1.958044E-25	1.975661E-25	1.761712E-27	1.583348E-10	988.248	8.375
Cs	55	118	117.926559	1.958216E-25	1.975647E-25	1.743080E-27	1.566602E-10	977.796	8.286
Ag	47	119	118.915665	1.974641E-25	1.992508E-25	1.786716E-27	1.605820E-10	1002.274	8.422
Cd	48	119	118.909922	1.974545E-25	1.992494E-25	1.794858E-27	1.613138E-10	1006.842	8.461
In	49	119	118.905845	1.974478E-25	1.992480E-25	1.800232E-27	1.617968E-10	1009.856	8.486
Sn	50	119	118.903308	1.974436E-25	1.992466E-25	1.803052E-27	1.620502E-10	1011.438	8.499
Sb	51	119	118.903942	1.974446E-25	1.992452E-25	1.800604E-27	1.618302E-10	1010.065	8.488
Te	52	119	118.906404	1.974487E-25	1.992438E-25	1.795122E-27	1.613375E-10	1006.989	8.462
I	53	119	118.910074	1.974548E-25	1.992424E-25	1.787632E-27	1.606644E-10	1002.788	8.427
Xe	54	119	118.915411	1.974637E-25	1.992410E-25	1.777376E-27	1.597426E-10	997.035	8.378
Cs	55	119	118.922377	1.974752E-25	1.992396E-25	1.764413E-27	1.585775E-10	989.763	8.317
Ba	56	119	118.930660	1.974890E-25	1.992382E-25	1.749265E-27	1.572161E-10	981.266	8.246
Pd	46	120	119.924692	1.991396E-25	2.009271E-25	1.787509E-27	1.606533E-10	1002.719	8.356
Ag	47	120	119.918787	1.991298E-25	2.009257E-25	1.795919E-27	1.614092E-10	1007.437	8.395
Cd	48	120	119.909850	1.991150E-25	2.009243E-25	1.809365E-27	1.626177E-10	1014.980	8.458
In	49	120	119.907960	1.991118E-25	2.009229E-25	1.811110E-27	1.627745E-10	1015.958	8.466
Sn	50	120	119.902195	1.991023E-25	2.009215E-25	1.819288E-27	1.635095E-10	1020.546	8.505
Sb	51	120	119.905072	1.991070E-25	2.009201E-25	1.813115E-27	1.629547E-10	1017.083	8.476
Te	52	120	119.904020	1.991053E-25	2.009188E-25	1.813468E-27	1.629863E-10	1017.281	8.477
I	53	120	119.910048	1.991153E-25	2.009174E-25	1.802063E-27	1.619614E-10	1010.884	8.424
Xe	54	120	119.911784	1.991182E-25	2.009160E-25	1.797786E-27	1.615769E-10	1008.484	8.404
Cs	55	120	119.920677	1.991329E-25	2.009146E-25	1.781624E-27	1.601244E-10	999.418	8.328
Ba	56	120	119.926045	1.991419E-25	2.009132E-25	1.771316E-27	1.591980E-10	993.636	8.280
Ag	47	121	120.919848	2.007921E-25	2.026007E-25	1.808547E-27	1.625441E-10	1014.520	8.384
Cd	48	121	120.912977	2.007807E-25	2.025993E-25	1.818561E-27	1.634441E-10	1020.138	8.431
In	49	121	120.907846	2.007722E-25	2.025979E-25	1.825687E-27	1.640846E-10	1024.136	8.464
Sn	50	121	120.904235	2.007662E-25	2.025965E-25	1.830288E-27	1.644981E-10	1026.716	8.485
Sb	51	121	120.903816	2.007655E-25	2.025951E-25	1.829590E-27	1.644354E-10	1026.325	8.482
Te	52								

značka	protonové číslo Z	hmotnostní číslo A	relativní hmotnost A_r	hmotnost m [kg]	součet hmotnosti částic v atomu $Z m_p + (A-Z) m_n + Z m_e$ [kg]	hmotnostní schodek Δm [kg]	vazebná energie		vazebná energie připadající na 1 nukleon E_v / A [MeV]
							$E_v = \Delta m c^2$ [J]	[MeV]	
Sb	51	123	122.904214	2.040872E-25	2.059449E-25	1.857706E-27	1.669623E-10	1042.097	8.472
Te	52	123	122.904270	2.040873E-25	2.059435E-25	1.856218E-27	1.668286E-10	1041.262	8.466
I	53	123	122.905589	2.040895E-25	2.059421E-25	1.852633E-27	1.665064E-10	1039.251	8.449
Xe	54	123	122.908482	2.040943E-25	2.059407E-25	1.846435E-27	1.659493E-10	1035.774	8.421
Cs	55	123	122.912996	2.041018E-25	2.059394E-25	1.837544E-27	1.651503E-10	1030.787	8.380
Ba	56	123	122.918781	2.041114E-25	2.059380E-25	1.826544E-27	1.641615E-10	1024.616	8.330
Cd	48	124	123.917648	2.057701E-25	2.076240E-25	1.853971E-27	1.666266E-10	1040.002	8.387
In	49	124	123.913175	2.057626E-25	2.076226E-25	1.860003E-27	1.671687E-10	1043.385	8.414
Sn	50	124	123.905274	2.057495E-25	2.076213E-25	1.871729E-27	1.682226E-10	1049.963	8.467
Sb	51	124	123.905936	2.057506E-25	2.076199E-25	1.869235E-27	1.679985E-10	1048.564	8.456
Te	52	124	123.902818	2.057454E-25	2.076185E-25	1.873018E-27	1.683385E-10	1050.686	8.473
I	53	124	123.906210	2.057511E-25	2.076171E-25	1.865991E-27	1.677069E-10	1046.744	8.441
Xe	54	124	123.905893	2.057506E-25	2.076157E-25	1.865122E-27	1.676288E-10	1046.257	8.438
Cs	55	124	123.912258	2.057611E-25	2.076143E-25	1.853159E-27	1.665536E-10	1039.546	8.383
Ba	56	124	123.915094	2.057658E-25	2.076129E-25	1.847055E-27	1.660050E-10	1036.122	8.356
La	57	124	123.924574	2.057816E-25	2.076115E-25	1.829917E-27	1.644648E-10	1026.508	8.278
Cd	48	125	124.921246	2.074366E-25	2.092990E-25	1.862384E-27	1.673827E-10	1044.721	8.358
In	49	125	124.913601	2.074239E-25	2.092976E-25	1.873685E-27	1.683984E-10	1051.060	8.408
Sn	50	125	124.907784	2.074142E-25	2.092962E-25	1.881949E-27	1.691411E-10	1055.696	8.446
Sb	51	125	124.905254	2.074100E-25	2.092948E-25	1.884756E-27	1.693934E-10	1057.271	8.458
Te	52	125	124.904431	2.074087E-25	2.092934E-25	1.884728E-27	1.693909E-10	1057.255	8.458
I	53	125	124.904630	2.074090E-25	2.092920E-25	1.883002E-27	1.692358E-10	1056.287	8.450
Xe	54	125	124.906395	2.074119E-25	2.092906E-25	1.878676E-27	1.688470E-10	1053.860	8.431
Cs	55	125	124.909728	2.074175E-25	2.092892E-25	1.871747E-27	1.682243E-10	1049.973	8.400
Ba	56	125	124.914473	2.074253E-25	2.092878E-25	1.862474E-27	1.673908E-10	1044.771	8.358
La	57	125	124.920816	2.074359E-25	2.092864E-25	1.850547E-27	1.663188E-10	1038.081	8.305
Cd	48	126	125.922353	2.090990E-25	2.109739E-25	1.874934E-27	1.685107E-10	1051.761	8.347
In	49	126	125.916464	2.090892E-25	2.109725E-25	1.883319E-27	1.692643E-10	1056.465	8.385
Sn	50	126	125.907653	2.090746E-25	2.109711E-25	1.896555E-27	1.704538E-10	1063.889	8.444
Sb	51	126	125.907247	2.090739E-25	2.109697E-25	1.895834E-27	1.703890E-10	1063.485	8.440
Te	52	126	125.903312	2.090673E-25	2.109683E-25	1.900975E-27	1.708511E-10	1066.369	8.463
I	53	126	125.905624	2.090712E-25	2.109669E-25	1.895740E-27	1.703806E-10	1063.432	8.440
Xe	54	126	125.904274	2.090689E-25	2.109655E-25	1.896588E-27	1.704568E-10	1063.908	8.444
Cs	55	126	125.909452	2.090775E-25	2.109641E-25	1.886595E-27	1.695587E-10	1058.302	8.399
Ba	56	126	125.911250	2.090805E-25	2.109627E-25	1.882214E-27	1.691650E-10	1055.845	8.380
La	57	126	125.919513	2.090942E-25	2.109613E-25	1.867099E-27	1.678065E-10	1047.366	8.312
Ce	58	126	125.923971	2.091016E-25	2.109599E-25	1.858301E-27	1.670158E-10	1042.431	8.273
Cd	48	127	126.926444	2.107663E-25	2.126488E-25	1.882530E-27	1.691933E-10	1056.022	8.315
In	49	127	126.917353	2.107512E-25	2.126474E-25	1.896231E-27	1.704247E-10	1063.708	8.376
Sn	50	127	126.910360	2.107396E-25	2.126460E-25	1.906448E-27	1.713430E-10	1069.439	8.421
Sb	51	127	126.906924	2.107339E-25	2.126446E-25	1.910760E-27	1.717306E-10	1071.858	8.440
Te	52	127	126.905226	2.107311E-25	2.126432E-25	1.912184E-27	1.718585E-10	1072.657	8.446
I	53	127	126.904473	2.107298E-25	2.126418E-25	1.912041E-27	1.718456E-10	1072.576	8.445
Xe	54	127	126.905184	2.107310E-25	2.126405E-25	1.909465E-27	1.716142E-10	1071.132	8.434
Cs	55	127	126.907418	2.107347E-25	2.126391E-25	1.904361E-27	1.711555E-10	1068.268	8.412
Ba	56	127	126.911094	2.107408E-25	2.126377E-25	1.896826E-27	1.704815E-10	1064.062	8.378
La	57	127	126.916375	2.107496E-25	2.126363E-25	1.886697E-27	1.695679E-10	1058.360	8.334
Ce	58	127	126.922731	2.107601E-25	2.126349E-25	1.874749E-27	1.684940E-10	1051.657	8.281
Cd	48	128	127.927762	2.124290E-25	2.143237E-25	1.894729E-27	1.702897E-10	1062.865	8.304
In	49	128	127.920172	2.124164E-25	2.143224E-25	1.905938E-27	1.712971E-10	1069.153	8.353
Sn	50	128	127.910537	2.124004E-25	2.143210E-25	1.920544E-27	1.726098E-10	1077.346	8.417
Sb	51	128	127.909169	2.123981E-25	2.143196E-25	1.921420E-27	1.726886E-10	1077.838	8.421
Te	52	128	127.904463	2.123903E-25	2.143182E-25	1.927840E-27	1.732656E-10	1081.439	8.449
I	53	128	127.905809	2.123926E-25	2.143168E-25	1.924209E-27	1.729393E-10	1079.402	8.433
Xe	54	128	127.903531	2.123888E-25	2.143154E-25	1.926598E-27	1.731540E-10	1080.742	8.443
Cs	55	128	127.907749	2.123958E-25	2.143140E-25	1.918200E-27	1.723992E-10	1076.031	8.406
Ba	56	128	127.908318	2.123967E-25	2.143126E-25	1.915860E-27	1.721889E-10	1074.719	8.396
La	57	128	127.915585	2.124088E-25	2.143112E-25	1.902398E-27	1.709790E-10	1067.167	8.337
Ce	58	128	127.918911	2.124143E-25	2.143098E-25	1.895481E-27	1.703573E-10	1063.287	8.307
Pr	59	128	127.928791	2.124307E-25	2.143084E-25	1.877680E-27	1.687574E-10	1053.301	8.229
In	49	129	128.921697	2.140795E-25	2.159973E-25	1.917794E-27	1.723628E-10	1075.804	8.340
Sn	50	129	128.913479	2.140658E-25	2.159959E-25	1.930046E-27	1.734639E-10	1082.677	8.393
Sb	51	129	128.909148	2.140587E-25	2.159945E-25	1.935842E-27	1.739848E-10	1085.928	8.418
Te	52	129	128.906598	2.140544E-25	2.159931E-25	1.938683E-27	1.742401E-10	1087.521	8.430
I	53	129	128.904988	2.140517E-25	2.159917E-25	1.939962E-27	1.743551E-10	1088.239	8.436
Xe	54	129	128.904779	2.140514E-25	2.159903E-25	1.938914E-27	1.742609E-10	1087.651	8.431
Cs	55	129	128.906064	2.140535E-25	2.159889E-25	1.935385E-27	1.739437E-10	1085.671	8.416
Ba	56	129	128.908679	2.140579E-25	2.159875E-25	1.929648E-27	1.734281E-10	1082.453	8.391
La	57	129	128.912693	2.140645E-25	2.159861E-25	1.921589E-27	1.727038E-10	1077.933	8.356
Ce	58	129	128.918102	2.140735E-25	2.159847E-25	1.911212E-27	1.717712E-10	1072.112	8.311
Pr	59	129	128.925095	2.140851E-25	2.159833E-25	1.898206E-27	1.706022E-10	1064.815	8.254
Cd	48	130	129.933902	2.157603E-25	2.176736E-25	1.913311E-27	1.719598E-10	1073.289	8.256
In	49	130	129.924970	2.157455E-25	2.176722E-25	1.926748E-27	1.731675E-10	1080.826	8.314
Sn	50	130	129.913967	2.157272E-25	2.176708E-25	1.943624E-27	1.746842E-10	1090.293	8.387
Sb	51	130	129.911656	2.157234E-25	2.176694E-25	1.946066E-27	1.749037E-10	1091.663	8.397
Te	52	130	129.906224	2.157143E-25	2.176680E-25	1.953692E-27	1.755891E-10	1095.941	8.430
I	53	130	129.906674	2.157151E-25	2.176666E-25	1.951550E-27	1.753966E-10	1094.739	8.421
Xe	54	130	129.903508	2.157098E-25	2.176652E-25	1.955413E-27	1.757438E-10	1096.906	8.438
Cs	55	130	129.906709	2.157151E-25	2.176638E-25	1.948704E-27	1.751408E-10	1093.143	8.409
Ba	56	130	129.906321	2.157145E-25	2.176624E-25	1.947953E-27	1.750733E-10	1092.722	8.406
La	57	130	129.912369	2.157245E-25	2.176611E-25	1.936516E-27	1.740454E-10	1086.306	8.356
Ce	58	130	129.914736	2.157285E-25	2.176597E-25	1.931190E-27	1.735667E-10	1083.318	8.333
Pr	59	130	129.923590	2.157432E-25	2.176583E-25	1.915093E-27	1.721200E-10	1074.289	8.264
Nd	60	130	129.928506	2.157513E-25	2.176569E-25	1.905535E-27	1.712610E-10	1068.927	8.223
In	49	131	130.926852	2.174091E-25	2.193471E-25	1.938012E-27	1.741798E-10	1087.145	8.299
Sn	50	131	130.917000	2.173928E-25	2.193457E-25	1.952977E-27	1.755248E-10	1095.540	8.363
Sb	51	131	130.911982	2.173844E-25	2.193443E-25	1.959914E-27	1.761483E-10	1099.431	8.393
Te	52	131	130.908524	2.173787E-25	2.193430E-25	1.964262E-27	1.765391E-10	1101.870	8.411
I	53	131	130.906125	2.173747E-25	2.193416E-25	1.966851E-27	1.767718E-10	1103.323	8.422
Xe	54	131	130.905082	2.173730E-25	2.193402E-25	1.967187E-27	1.768020E-10	1103.511	8.424
Cs	55	131	130.905464	2.173736E-25	2.193388E-25	1.965159E-27	1.766197E-10	1102.373	8.415
Ba	56	131	130.906941	2.173761E-25	2.193374E-25	1.96131			

značka	protonové číslo Z	hmotnostní číslo A	relativní hmotnost A_r	hmotnost m [kg]	součet hmotností částic v atomu $Z m_p + (A-Z) m_n + Z m_e$ [kg]	hmotnostní schodek Δm [kg]	vazebná energie		vazebná energie připadající na 1 nukleon E_v / A [MeV]
							$E_v = \Delta m c^2$ [J]	[MeV]	
Sb	51	133	132.915252	2.207109E-25	2.226942E-25	1.983262E-27	1.782467E-10	1112.528	8.365
Te	52	133	132.910955	2.207038E-25	2.226928E-25	1.989001E-27	1.787625E-10	1115.748	8.389
I	53	133	132.907797	2.206986E-25	2.226914E-25	1.992851E-27	1.791085E-10	1117.908	8.405
Xe	54	133	132.905911	2.206954E-25	2.226900E-25	1.994589E-27	1.792647E-10	1118.882	8.413
Cs	55	133	132.905452	2.206947E-25	2.226886E-25	1.993956E-27	1.792078E-10	1118.527	8.410
Ba	56	133	132.906007	2.206956E-25	2.226872E-25	1.991639E-27	1.789996E-10	1117.227	8.400
La	57	133	132.908218	2.206993E-25	2.226858E-25	1.986573E-27	1.785443E-10	1114.386	8.379
Ce	58	133	132.911515	2.207047E-25	2.226844E-25	1.979704E-27	1.779269E-10	1110.533	8.350
Pr	59	133	132.916331	2.207127E-25	2.226830E-25	1.970313E-27	1.770829E-10	1105.265	8.310
Nd	60	133	132.922348	2.207227E-25	2.226817E-25	1.958926E-27	1.760595E-10	1098.877	8.262
Pm	61	133	132.929782	2.207351E-25	2.226803E-25	1.945187E-27	1.748247E-10	1091.170	8.204
Sn	50	134	133.928292	2.223931E-25	2.243705E-25	1.977391E-27	1.777190E-10	1109.235	8.278
Sb	51	134	133.920380	2.223800E-25	2.243691E-25	1.989135E-27	1.787745E-10	1115.823	8.327
Te	52	134	133.911369	2.223650E-25	2.243677E-25	2.002703E-27	1.799940E-10	1123.434	8.384
I	53	134	133.909744	2.223623E-25	2.243663E-25	2.004006E-27	1.801110E-10	1124.165	8.389
Xe	54	134	133.905394	2.223551E-25	2.243649E-25	2.009834E-27	1.806349E-10	1127.434	8.414
Cs	55	134	133.906718	2.223573E-25	2.243636E-25	2.006241E-27	1.803120E-10	1125.419	8.399
Ba	56	134	133.904508	2.223536E-25	2.243622E-25	2.008516E-27	1.805165E-10	1126.695	8.408
La	57	134	133.908514	2.223603E-25	2.243608E-25	2.000470E-27	1.797933E-10	1122.182	8.374
Ce	58	134	133.908925	2.223610E-25	2.243594E-25	1.998394E-27	1.796607E-10	1121.017	8.366
Pr	59	134	133.915712	2.223722E-25	2.243580E-25	1.985729E-27	1.784684E-10	1113.912	8.313
Nd	60	134	133.918790	2.223774E-25	2.243566E-25	1.979222E-27	1.778836E-10	1110.262	8.286
Pm	61	134	133.928353	2.223932E-25	2.243552E-25	1.961948E-27	1.763311E-10	1100.572	8.213
Sb	51	135	134.925166	2.240485E-25	2.260441E-25	1.995576E-27	1.793534E-10	1119.436	8.292
Te	52	135	134.916449	2.240340E-25	2.260427E-25	2.008656E-27	1.805290E-10	1126.774	8.346
I	53	135	134.910048	2.240234E-25	2.260413E-25	2.017890E-27	1.813589E-10	1131.953	8.385
Xe	54	135	134.907227	2.240187E-25	2.260399E-25	2.021179E-27	1.816545E-10	1133.798	8.399
Cs	55	135	134.905977	2.240166E-25	2.260385E-25	2.021861E-27	1.817158E-10	1134.181	8.401
Ba	56	135	134.905689	2.240161E-25	2.260371E-25	2.020945E-27	1.816335E-10	1133.667	8.398
La	57	135	134.906977	2.240183E-25	2.260357E-25	2.017411E-27	1.813159E-10	1131.685	8.383
Ce	58	135	134.909151	2.240219E-25	2.260343E-25	2.012406E-27	1.808660E-10	1128.877	8.362
Pr	59	135	134.913112	2.240285E-25	2.260329E-25	2.004435E-27	1.801496E-10	1124.406	8.329
Nd	60	135	134.918181	2.240369E-25	2.260315E-25	1.994622E-27	1.792677E-10	1118.901	8.288
Pm	61	135	134.924876	2.240480E-25	2.260301E-25	1.982110E-27	1.781432E-10	1111.883	8.236
Sm	62	135	134.932520	2.240607E-25	2.260287E-25	1.968023E-27	1.768771E-10	1103.980	8.178
Te	52	136	135.920101	2.257006E-25	2.277176E-25	2.016979E-27	1.812771E-10	1131.442	8.319
I	53	136	135.914654	2.256916E-25	2.277162E-25	2.024630E-27	1.819647E-10	1135.734	8.351
Xe	54	136	135.907219	2.256792E-25	2.277148E-25	2.035582E-27	1.829490E-10	1141.878	8.396
Cs	55	136	135.907312	2.256794E-25	2.277134E-25	2.034033E-27	1.828098E-10	1141.009	8.390
Ba	56	136	135.904576	2.256748E-25	2.277120E-25	2.037181E-27	1.830927E-10	1142.775	8.403
La	57	136	135.907636	2.256799E-25	2.277106E-25	2.030706E-27	1.825107E-10	1139.143	8.376
Ce	58	136	135.907172	2.256791E-25	2.277092E-25	2.030080E-27	1.824545E-10	1138.792	8.373
Pr	59	136	135.912692	2.256883E-25	2.277078E-25	2.019521E-27	1.815055E-10	1132.868	8.330
Nd	60	136	135.914976	2.256921E-25	2.277064E-25	2.014333E-27	1.810392E-10	1129.958	8.309
Pm	61	136	135.923566	2.257064E-25	2.277050E-25	1.998674E-27	1.796319E-10	1121.174	8.244
Sm	62	136	135.928276	2.257142E-25	2.277036E-25	1.989459E-27	1.788037E-10	1116.005	8.206
Te	52	137	136.925323	2.273698E-25	2.293925E-25	2.022697E-27	1.817909E-10	1134.650	8.282
I	53	137	136.917871	2.273574E-25	2.293911E-25	2.033677E-27	1.827777E-10	1140.809	8.327
Xe	54	137	136.911562	2.273470E-25	2.293897E-25	2.042758E-27	1.835939E-10	1145.903	8.364
Cs	55	137	136.907089	2.273395E-25	2.293883E-25	2.048790E-27	1.841361E-10	1149.287	8.389
Ba	56	137	136.905827	2.273374E-25	2.293869E-25	2.049491E-27	1.841991E-10	1149.680	8.392
La	57	137	136.906494	2.273386E-25	2.293855E-25	2.046991E-27	1.839743E-10	1148.278	8.382
Ce	58	137	136.907806	2.273407E-25	2.293841E-25	2.043417E-27	1.836532E-10	1146.273	8.367
Pr	59	137	136.910705	2.273455E-25	2.293828E-25	2.037207E-27	1.830951E-10	1142.790	8.342
Nd	60	137	136.914567	2.273520E-25	2.293814E-25	2.029400E-27	1.823934E-10	1138.410	8.310
Pm	61	137	136.920479	2.273618E-25	2.293800E-25	2.018188E-27	1.813857E-10	1132.120	8.264
Sm	62	137	136.926972	2.273726E-25	2.293786E-25	2.006013E-27	1.802914E-10	1125.291	8.214
I	53	138	137.922350	2.290254E-25	2.310660E-25	2.040628E-27	1.834025E-10	1144.708	8.295
Xe	54	138	137.913954	2.290115E-25	2.310647E-25	2.053174E-27	1.845301E-10	1151.746	8.346
Cs	55	138	137.911017	2.290066E-25	2.310633E-25	2.056657E-27	1.848432E-10	1153.700	8.360
Ba	56	138	137.905247	2.289970E-25	2.310619E-25	2.064843E-27	1.855789E-10	1158.292	8.393
La	57	138	137.907112	2.290001E-25	2.310605E-25	2.060352E-27	1.851752E-10	1155.773	8.375
Ce	58	138	137.905991	2.289983E-25	2.310591E-25	2.060818E-27	1.852171E-10	1156.034	8.377
Pr	59	138	137.910755	2.290062E-25	2.310577E-25	2.051514E-27	1.843809E-10	1150.815	8.339
Nd	60	138	137.911950	2.290082E-25	2.310563E-25	2.048135E-27	1.840772E-10	1148.919	8.326
Pm	61	138	137.919548	2.290208E-25	2.310549E-25	2.034123E-27	1.828178E-10	1141.059	8.269
Sm	62	138	137.923244	2.290269E-25	2.310535E-25	2.026591E-27	1.821409E-10	1136.834	8.238
Eu	63	138	137.933709	2.290443E-25	2.310521E-25	2.007819E-27	1.804538E-10	1126.304	8.162
I	53	139	138.926099	2.306922E-25	2.327410E-25	2.048790E-27	1.841360E-10	1149.287	8.268
Xe	54	139	138.918793	2.306801E-25	2.327396E-25	2.059528E-27	1.851011E-10	1155.310	8.312
Cs	55	139	138.913364	2.306710E-25	2.327382E-25	2.067148E-27	1.857860E-10	1159.585	8.342
Ba	56	139	138.908841	2.306635E-25	2.327368E-25	2.073263E-27	1.863356E-10	1163.016	8.367
La	57	139	138.906353	2.306594E-25	2.327354E-25	2.076000E-27	1.865816E-10	1164.551	8.378
Ce	58	139	138.906653	2.306599E-25	2.327340E-25	2.074109E-27	1.864116E-10	1163.490	8.370
Pr	59	139	138.908938	2.306637E-25	2.327326E-25	2.068918E-27	1.859451E-10	1160.578	8.349
Nd	60	139	138.911978	2.306668E-25	2.327312E-25	2.062476E-27	1.853661E-10	1156.964	8.323
Pm	61	139	138.916804	2.306768E-25	2.327298E-25	2.053068E-27	1.845205E-10	1151.687	8.286
Sm	62	139	138.922297	2.306859E-25	2.327284E-25	2.042553E-27	1.835755E-10	1145.788	8.243
Eu	63	139	138.929792	2.306983E-25	2.327270E-25	2.028711E-27	1.823315E-10	1138.024	8.187
Xe	54	140	139.921641	2.323453E-25	2.344145E-25	2.069187E-27	1.859692E-10	1160.729	8.291
Cs	55	140	139.917282	2.323381E-25	2.344131E-25	2.075030E-27	1.864944E-10	1164.006	8.314
Ba	56	140	139.910605	2.323270E-25	2.344117E-25	2.084724E-27	1.873657E-10	1169.445	8.353
La	57	140	139.909478	2.323251E-25	2.344103E-25	2.085201E-27	1.874085E-10	1169.712	8.355
Ce	58	140	139.905439	2.323184E-25	2.344089E-25	2.090513E-27	1.878859E-10	1172.692	8.376
Pr	59	140	139.909076	2.323245E-25	2.344075E-25	2.083079E-27	1.872178E-10	1168.521	8.347
Nd	60	140	139.909552	2.323252E-25	2.344061E-25	2.080893E-27	1.870214E-10	1167.296	8.338
Pm	61	140	139.916042	2.323360E-25	2.344047E-25	2.068722E-27	1.859275E-10	1160.468	8.289
Sm	62	140	139.918995	2.323409E-25	2.344034E-25	2.062424E-27	1.853614E-10	1156.935	8.264
Eu	63	140	139.928088	2.323560E-25	2.344020E-25	2.045930E-27	1.838790E-10	1147.683	8.198
Gd	64	140	139.933674	2.323653E-25	2.344006E-25	2.035259E-27	1.829200E-10	1141.697	8.155
Tb	65	140	139.945805	2.323854E-25	2.343992E-25	2.013721E-27	1.809842E-10	1129.614	8.069
Xe	54	141	140.926648	2.340142E-25	2.360894E-25	2.0			

značka	protonové číslo Z	hmotnostní číslo A	relativní hmotnost A_r	hmotnost m [kg]	součet hmotnosti částic v atomu $Z m_p + (A - Z) m_n + Z m_e$ [kg]	hmotnostní schodek Δm [kg]	vazebná energie $E_v = \Delta m c^2$		vazebná energie připadající na 1 nukleon E_v / A [MeV]
							[J]	[MeV]	
Nd	60	142	141.907723	2.356433E-25	2.377560E-25	2.112707E-27	1.898806E-10	1185.142	8.346
Pm	61	142	141.912874	2.356518E-25	2.377546E-25	2.102758E-27	1.889865E-10	1179.561	8.307
Sm	62	142	141.915198	2.356557E-25	2.377532E-25	2.097506E-27	1.885144E-10	1176.615	8.286
Eu	63	142	141.923435	2.356694E-25	2.377518E-25	2.082433E-27	1.871598E-10	1168.159	8.226
Gd	64	142	141.928116	2.356772E-25	2.377504E-25	2.073265E-27	1.863358E-10	1163.017	8.190
Cs	55	143	142.927352	2.373364E-25	2.394379E-25	2.101475E-27	1.888711E-10	1178.841	8.244
Ba	56	143	142.920627	2.373253E-25	2.394365E-25	2.111247E-27	1.897494E-10	1184.323	8.282
La	57	143	142.916063	2.373177E-25	2.394351E-25	2.117431E-27	1.903052E-10	1187.792	8.306
Ce	58	143	142.912386	2.373116E-25	2.394337E-25	2.122142E-27	1.907286E-10	1190.434	8.325
Pr	59	143	142.910817	2.373090E-25	2.394323E-25	2.123353E-27	1.908374E-10	1191.114	8.329
Nd	60	143	142.909814	2.373073E-25	2.394309E-25	2.123623E-27	1.908617E-10	1191.265	8.331
Pm	61	143	142.910933	2.373092E-25	2.394295E-25	2.120371E-27	1.905695E-10	1189.441	8.318
Sm	62	143	142.914628	2.373153E-25	2.394281E-25	2.112840E-27	1.898926E-10	1185.216	8.288
Eu	63	143	142.920298	2.373247E-25	2.394267E-25	2.102031E-27	1.889212E-10	1179.153	8.246
Gd	64	143	142.926750	2.373354E-25	2.394253E-25	2.089923E-27	1.878329E-10	1172.361	8.198
Tb	65	143	142.935121	2.373493E-25	2.394239E-25	2.074627E-27	1.864582E-10	1163.781	8.138
Cs	55	144	143.932077	2.390048E-25	2.411128E-25	2.108017E-27	1.894591E-10	1182.511	8.212
Ba	56	144	143.922953	2.389897E-25	2.411114E-25	2.121773E-27	1.906954E-10	1190.227	8.265
La	57	144	143.919600	2.389841E-25	2.411100E-25	2.125946E-27	1.910705E-10	1192.569	8.282
Ce	58	144	143.913647	2.389742E-25	2.411086E-25	2.134436E-27	1.918335E-10	1197.331	8.315
Pr	59	144	143.913305	2.389736E-25	2.411072E-25	2.133609E-27	1.917592E-10	1196.867	8.312
Nd	60	144	143.910087	2.389683E-25	2.411059E-25	2.137558E-27	1.921141E-10	1199.082	8.327
Pm	61	144	143.912591	2.389724E-25	2.411045E-25	2.132006E-27	1.916152E-10	1195.968	8.305
Sm	62	144	143.911999	2.389715E-25	2.411031E-25	2.131594E-27	1.915781E-10	1195.736	8.304
Eu	63	144	143.918817	2.389828E-25	2.411017E-25	2.118878E-27	1.904353E-10	1188.604	8.254
Gd	64	144	143.922963	2.389897E-25	2.411003E-25	2.110599E-27	1.896912E-10	1183.959	8.222
Tb	65	144	143.933045	2.390064E-25	2.410989E-25	2.092463E-27	1.880612E-10	1173.786	8.151
Dy	66	144	143.939254	2.390167E-25	2.410975E-25	2.080758E-27	1.870092E-10	1167.220	8.106
Cs	55	145	144.935526	2.406711E-25	2.427878E-25	2.116677E-27	1.902375E-10	1187.369	8.189
Ba	56	145	144.927627	2.406580E-25	2.427864E-25	2.128400E-27	1.912910E-10	1193.945	8.234
La	57	145	144.921645	2.406480E-25	2.427850E-25	2.136938E-27	1.920584E-10	1198.734	8.267
Ce	58	145	144.917233	2.406407E-25	2.427836E-25	2.142870E-27	1.925915E-10	1202.062	8.290
Pr	59	145	144.914512	2.406362E-25	2.427822E-25	2.145994E-27	1.928723E-10	1203.815	8.302
Nd	60	145	144.912574	2.406330E-25	2.427808E-25	2.147818E-27	1.930362E-10	1204.838	8.309
Pm	61	145	144.912749	2.406333E-25	2.427794E-25	2.146132E-27	1.928847E-10	1203.892	8.303
Sm	62	145	144.913410	2.406343E-25	2.427780E-25	2.143639E-27	1.926607E-10	1202.493	8.293
Eu	63	145	144.916265	2.406391E-25	2.427766E-25	2.137504E-27	1.921093E-10	1199.052	8.269
Gd	64	145	144.921709	2.406481E-25	2.427752E-25	2.127069E-27	1.911715E-10	1193.198	8.229
Tb	65	145	144.929274	2.406607E-25	2.427738E-25	2.113113E-27	1.899171E-10	1185.370	8.175
Dy	66	145	144.937425	2.406742E-25	2.427724E-25	2.098183E-27	1.885753E-10	1176.995	8.117
Cs	55	146	145.940289	2.423395E-25	2.444627E-25	2.123156E-27	1.908198E-10	1191.003	8.158
Ba	56	146	145.930220	2.423228E-25	2.444613E-25	2.138483E-27	1.921973E-10	1199.601	8.216
La	57	146	145.925793	2.423155E-25	2.444599E-25	2.144438E-27	1.927325E-10	1202.942	8.239
Ce	58	146	145.918759	2.423038E-25	2.444585E-25	2.154724E-27	1.936570E-10	1208.712	8.279
Pr	59	146	145.917644	2.423019E-25	2.444571E-25	2.155181E-27	1.936980E-10	1208.968	8.281
Nd	60	146	145.913117	2.422944E-25	2.444557E-25	2.161304E-27	1.942483E-10	1212.403	8.304
Pm	61	146	145.914696	2.422970E-25	2.444543E-25	2.157287E-27	1.938873E-10	1210.149	8.289
Sm	62	146	145.913041	2.422943E-25	2.444529E-25	2.158641E-27	1.940090E-10	1210.909	8.294
Eu	63	146	145.917206	2.423012E-25	2.444515E-25	2.150330E-27	1.932621E-10	1206.247	8.262
Gd	64	146	145.918311	2.423030E-25	2.444501E-25	2.147101E-27	1.929718E-10	1204.436	8.250
Tb	65	146	145.927247	2.423179E-25	2.444487E-25	2.130868E-27	1.915129E-10	1195.329	8.187
Dy	66	146	145.932845	2.423272E-25	2.444473E-25	2.120176E-27	1.905520E-10	1189.332	8.146
Cs	55	147	146.944155	2.440065E-25	2.461376E-25	2.131126E-27	1.915360E-10	1195.474	8.132
La	57	147	146.928235	2.439800E-25	2.461348E-25	2.154772E-27	1.936612E-10	1208.738	8.223
Ce	58	147	146.922674	2.439708E-25	2.461334E-25	2.162612E-27	1.943659E-10	1213.136	8.253
Pr	59	147	146.918996	2.439647E-25	2.461320E-25	2.167325E-27	1.947894E-10	1215.780	8.271
Nd	60	147	146.916100	2.439599E-25	2.461306E-25	2.170738E-27	1.950962E-10	1217.695	8.284
Pm	61	147	146.915139	2.439583E-25	2.461292E-25	2.170941E-27	1.951144E-10	1217.809	8.284
Sm	62	147	146.914898	2.439579E-25	2.461278E-25	2.169946E-27	1.950250E-10	1217.250	8.281
Eu	63	147	146.916746	2.439610E-25	2.461264E-25	2.165482E-27	1.946238E-10	1214.747	8.264
Gd	64	147	146.919094	2.439649E-25	2.461251E-25	2.160188E-27	1.941480E-10	1211.777	8.243
Tb	65	147	146.924045	2.439731E-25	2.461237E-25	2.150574E-27	1.932839E-10	1206.383	8.207
Dy	66	147	146.931092	2.439848E-25	2.461223E-25	2.137477E-27	1.921069E-10	1199.037	8.157
Ho	67	147	146.940056	2.439997E-25	2.461209E-25	2.121197E-27	1.906437E-10	1189.904	8.095
Cs	55	148	147.949218	2.456754E-25	2.478125E-25	2.137107E-27	1.920736E-10	1198.829	8.100
Ba	56	148	147.937720	2.456563E-25	2.478111E-25	2.154805E-27	1.936642E-10	1208.757	8.167
La	57	148	147.932229	2.456472E-25	2.478097E-25	2.162529E-27	1.943584E-10	1213.090	8.197
Ce	58	148	147.924432	2.456343E-25	2.478083E-25	2.174080E-27	1.953966E-10	1219.570	8.240
Pr	59	148	147.922135	2.456305E-25	2.478070E-25	2.176501E-27	1.956141E-10	1220.927	8.250
Nd	60	148	147.916893	2.456217E-25	2.478056E-25	2.183810E-27	1.962711E-10	1225.028	8.277
Pm	61	148	147.917475	2.456227E-25	2.478042E-25	2.181450E-27	1.960590E-10	1223.704	8.268
Sm	62	148	147.914823	2.456183E-25	2.478028E-25	2.184459E-27	1.963294E-10	1225.392	8.280
Eu	63	148	147.918086	2.456237E-25	2.478014E-25	2.177646E-27	1.957171E-10	1221.570	8.254
Gd	64	148	147.918115	2.456238E-25	2.478000E-25	2.176204E-27	1.955874E-10	1220.761	8.248
Tb	65	148	147.924272	2.456340E-25	2.477986E-25	2.164585E-27	1.945432E-10	1214.243	8.204
Dy	66	148	147.927150	2.456388E-25	2.477972E-25	2.158411E-27	1.939883E-10	1210.780	8.181
Ho	67	148	147.937718	2.456563E-25	2.477958E-25	2.139468E-27	1.922858E-10	1200.153	8.109
Ce	58	149	148.928400	2.473014E-25	2.494833E-25	2.181881E-27	1.960977E-10	1223.945	8.214
Pr	59	149	148.923718	2.472936E-25	2.494819E-25	2.188261E-27	1.966711E-10	1227.525	8.238
Nd	60	149	148.920149	2.472877E-25	2.494805E-25	2.192793E-27	1.970784E-10	1230.067	8.255
Pm	61	149	148.918334	2.472847E-25	2.494791E-25	2.194411E-27	1.972239E-10	1230.975	8.262
Sm	62	149	148.917185	2.472828E-25	2.494777E-25	2.194925E-27	1.972701E-10	1231.263	8.264
Eu	63	149	148.917931	2.472840E-25	2.494763E-25	2.192291E-27	1.970333E-10	1229.785	8.254
Gd	64	149	148.919341	2.472864E-25	2.494749E-25	2.188556E-27	1.966976E-10	1227.690	8.240
Tb	65	149	148.923246	2.472928E-25	2.494735E-25	2.180677E-27	1.959894E-10	1223.270	8.210
Dy	66	149	148.927305	2.472996E-25	2.494721E-25	2.172542E-27	1.952583E-10	1218.707	8.179
Ho	67	149	148.933775	2.473103E-25	2.494707E-25	2.160404E-27	1.941674E-10	1211.898	8.134
Er	68	149	148.942306	2.473245E-25	2.494693E-25	2.144843E-27	1.927689E-10	1203.169	8.075
Ce	58	150	149.930409	2.489653E-25	2.511582E-25	2.192933E-27	1.970910E-10	1230.145	8.201
Pr	59	150	149.926673	2.489591E-25	2.511568E-25	2.197742E-27	1.975232E-10	1232.843	8.219
Nd	60	150	149.920891	2.489495E-25	2.511554E-25	2.205949E-27	1.982608E-10	1237.447	8.250
Pm	61	150	149.920984	2.489496E-25	2.511540E-25				

značka	protonové číslo Z	hmotnostní číslo A	relativní hmotnost A_r	hmotnost m [kg]	součet hmotnosti částic v atomu $Z m_p + (A - Z) m_n + Z m_e$ [kg]	hmotnostní schodek Δm [kg]	vazebná energie		vazebná energie připadající na 1 nukleon E_v / A [MeV]
							$E_v = \Delta m c^2$ [J]	[MeV]	
Er	68	151	150.937449	2.506375E-25	2.528192E-25	2.181685E-27	1.960801E-10	1223.836	8.105
Tm	69	151	150.945483	2.506508E-25	2.528178E-25	2.166949E-27	1.947556E-10	1215.569	8.050
Yb	70	151	150.955401	2.506673E-25	2.528164E-25	2.149086E-27	1.931502E-10	1205.549	7.984
Pr	59	152	151.931499	2.522882E-25	2.545067E-25	2.218505E-27	1.993893E-10	1244.490	8.187
Nd	60	152	151.924682	2.522768E-25	2.545053E-25	2.228430E-27	2.002813E-10	1250.058	8.224
Pm	61	152	151.923497	2.522749E-25	2.545039E-25	2.229004E-27	2.003329E-10	1250.380	8.226
Sm	62	152	151.919732	2.522686E-25	2.545025E-25	2.233860E-27	2.007693E-10	1253.104	8.244
Eu	63	152	151.921745	2.522720E-25	2.545011E-25	2.229124E-27	2.003437E-10	1250.447	8.227
Gd	64	152	151.919791	2.522687E-25	2.544997E-25	2.230974E-27	2.005099E-10	1251.484	8.233
Tb	65	152	151.924074	2.522758E-25	2.544983E-25	2.222466E-27	1.997453E-10	1246.712	8.202
Dy	66	152	151.924718	2.522769E-25	2.544969E-25	2.220002E-27	1.995239E-10	1245.330	8.193
Ho	67	152	151.931714	2.522885E-25	2.544955E-25	2.206992E-27	1.983545E-10	1238.032	8.145
Er	68	152	151.935050	2.522941E-25	2.544941E-25	2.200056E-27	1.977312E-10	1234.141	8.119
Tm	69	152	151.944422	2.523096E-25	2.544927E-25	2.183100E-27	1.962072E-10	1224.629	8.057
Yb	70	152	151.950289	2.523194E-25	2.544913E-25	2.171963E-27	1.952063E-10	1218.382	8.016
Pr	59	153	152.933839	2.539526E-25	2.561816E-25	2.229008E-27	2.003333E-10	1250.382	8.172
Nd	60	153	152.927698	2.539424E-25	2.561802E-25	2.237810E-27	2.011244E-10	1255.320	8.205
Pm	61	153	152.924117	2.539364E-25	2.561788E-25	2.242363E-27	2.015335E-10	1257.873	8.221
Sm	62	153	152.922097	2.539331E-25	2.561774E-25	2.244321E-27	2.017096E-10	1258.972	8.229
Eu	63	153	152.921230	2.539316E-25	2.561760E-25	2.244367E-27	2.017136E-10	1258.997	8.229
Gd	64	153	152.921750	2.539325E-25	2.561746E-25	2.242110E-27	2.015108E-10	1257.731	8.220
Tb	65	153	152.923435	2.539353E-25	2.561732E-25	2.237917E-27	2.011340E-10	1255.379	8.205
Dy	66	153	152.925765	2.539392E-25	2.561718E-25	2.232653E-27	2.006609E-10	1252.427	8.186
Ho	67	153	152.930199	2.539465E-25	2.561704E-25	2.223896E-27	1.998738E-10	1247.514	8.154
Er	68	153	152.935063	2.539546E-25	2.561690E-25	2.214423E-27	1.990224E-10	1242.200	8.119
Tm	69	153	152.942012	2.539662E-25	2.561676E-25	2.201490E-27	1.978600E-10	1234.945	8.072
Lu	71	153	152.958767	2.539940E-25	2.561649E-25	2.170878E-27	1.951088E-10	1217.773	7.959
Pr	59	154	153.937518	2.556192E-25	2.578565E-25	2.237287E-27	2.010773E-10	1255.026	8.150
Nd	60	154	153.929477	2.556059E-25	2.578551E-25	2.249244E-27	2.021520E-10	1261.734	8.193
Pm	61	154	153.926464	2.556009E-25	2.578537E-25	2.252854E-27	2.024764E-10	1263.758	8.206
Sm	62	154	153.922209	2.555938E-25	2.578523E-25	2.258524E-27	2.029860E-10	1266.939	8.227
Eu	63	154	153.922979	2.555951E-25	2.578509E-25	2.255851E-27	2.027458E-10	1265.440	8.217
Gd	64	154	153.920866	2.555916E-25	2.578495E-25	2.257966E-27	2.029359E-10	1266.626	8.225
Tb	65	154	153.924678	2.555979E-25	2.578482E-25	2.250241E-27	2.022415E-10	1262.293	8.197
Dy	66	154	153.924424	2.555975E-25	2.578468E-25	2.249267E-27	2.021540E-10	1261.746	8.193
Ho	67	154	153.930602	2.556077E-25	2.578454E-25	2.237615E-27	2.011068E-10	1255.210	8.151
Er	68	154	153.932783	2.556114E-25	2.578440E-25	2.232598E-27	2.006559E-10	1252.396	8.132
Tm	69	154	153.941568	2.556260E-25	2.578426E-25	2.216616E-27	1.992195E-10	1243.430	8.074
Yb	70	154	153.946394	2.556340E-25	2.578412E-25	2.207207E-27	1.983739E-10	1238.153	8.040
Pm	61	155	154.928101	2.572641E-25	2.595287E-25	2.264523E-27	2.035252E-10	1270.304	8.196
Sm	62	155	154.924640	2.572584E-25	2.595273E-25	2.268876E-27	2.039164E-10	1272.746	8.211
Eu	63	155	154.922893	2.572555E-25	2.595259E-25	2.270382E-27	2.040518E-10	1273.591	8.217
Gd	64	155	154.922622	2.572550E-25	2.595245E-25	2.269438E-27	2.039669E-10	1273.061	8.213
Tb	65	155	154.923505	2.572565E-25	2.595231E-25	2.266577E-27	2.037097E-10	1271.456	8.203
Dy	66	155	154.925754	2.572602E-25	2.595217E-25	2.261448E-27	2.032488E-10	1268.579	8.184
Ho	67	155	154.929103	2.572658E-25	2.595203E-25	2.254491E-27	2.026236E-10	1264.677	8.159
Er	68	155	154.933209	2.572726E-25	2.595189E-25	2.246279E-27	2.018855E-10	1260.070	8.129
Tm	69	155	154.939199	2.572826E-25	2.595175E-25	2.234937E-27	2.008661E-10	1253.708	8.088
Yb	70	155	154.945782	2.572935E-25	2.595161E-25	2.222611E-27	1.997584E-10	1246.794	8.044
Lu	71	155	154.954316	2.573077E-25	2.595147E-25	2.207046E-27	1.983594E-10	1238.062	7.987
Nd	60	156	155.935018	2.589362E-25	2.612050E-25	2.268821E-27	2.039114E-10	1272.715	8.158
Pm	61	156	155.931057	2.589296E-25	2.612036E-25	2.274004E-27	2.043773E-10	1275.623	8.177
Sm	62	156	155.925528	2.589204E-25	2.612022E-25	2.281790E-27	2.050771E-10	1279.991	8.205
Eu	63	156	155.924752	2.589191E-25	2.612008E-25	2.281684E-27	2.050675E-10	1279.931	8.205
Gd	64	156	155.922123	2.589147E-25	2.611994E-25	2.284655E-27	2.053346E-10	1281.598	8.215
Tb	65	156	155.924747	2.589191E-25	2.611980E-25	2.278903E-27	2.048176E-10	1278.371	8.195
Dy	66	156	155.924283	2.589183E-25	2.611966E-25	2.278279E-27	2.047615E-10	1278.021	8.192
Ho	67	156	155.929839	2.589276E-25	2.611952E-25	2.267658E-27	2.038070E-10	1272.063	8.154
Er	68	156	155.931065	2.589296E-25	2.611938E-25	2.264228E-27	2.034987E-10	1270.139	8.142
Tm	69	156	155.938980	2.589427E-25	2.611924E-25	2.249690E-27	2.021921E-10	1261.984	8.090
Yb	70	156	155.942818	2.589491E-25	2.611910E-25	2.241922E-27	2.014939E-10	1257.626	8.062
Lu	71	156	155.953033	2.589661E-25	2.611896E-25	2.223566E-27	1.998441E-10	1247.329	7.996
Hf	72	156	155.959364	2.589766E-25	2.611882E-25	2.211658E-27	1.987739E-10	1240.649	7.953
Pm	61	157	156.933039	2.605934E-25	2.628785E-25	2.285100E-27	2.053746E-10	1281.847	8.165
Sm	62	157	156.928359	2.605856E-25	2.628771E-25	2.291478E-27	2.059478E-10	1285.425	8.187
Eu	63	157	156.925424	2.605808E-25	2.628757E-25	2.294957E-27	2.062605E-10	1287.377	8.200
Gd	64	157	156.923960	2.605783E-25	2.628743E-25	2.295993E-27	2.063535E-10	1287.958	8.204
Tb	65	157	156.924025	2.605784E-25	2.628729E-25	2.294491E-27	2.062186E-10	1287.115	8.198
Dy	66	157	156.925466	2.605808E-25	2.628715E-25	2.290703E-27	2.058781E-10	1284.990	8.185
Ho	67	157	156.928256	2.605855E-25	2.628701E-25	2.284675E-27	2.053363E-10	1281.609	8.163
Er	68	157	156.931916	2.605915E-25	2.628687E-25	2.277203E-27	2.046648E-10	1277.417	8.136
Tm	69	157	156.936973	2.605999E-25	2.628674E-25	2.267411E-27	2.037847E-10	1271.924	8.101
Yb	70	157	156.942628	2.606093E-25	2.628660E-25	2.256626E-27	2.028155E-10	1265.875	8.063
Lu	71	157	156.950098	2.606217E-25	2.628646E-25	2.242877E-27	2.015752E-10	1258.134	8.014
Ta	73	157	156.968192	2.606518E-25	2.628618E-25	2.209992E-27	1.986241E-10	1239.714	7.896
Pm	61	158	157.936561	2.622598E-25	2.645534E-25	2.293640E-27	2.061421E-10	1286.638	8.143
Sm	62	158	157.929991	2.622489E-25	2.645520E-25	2.303155E-27	2.069973E-10	1291.975	8.177
Eu	63	158	157.927845	2.622453E-25	2.645506E-25	2.305324E-27	2.071922E-10	1293.192	8.185
Gd	64	158	157.924104	2.622391E-25	2.645493E-25	2.310142E-27	2.076252E-10	1295.895	8.202
Tb	65	158	157.925413	2.622413E-25	2.645479E-25	2.306574E-27	2.073045E-10	1293.893	8.189
Dy	66	158	157.924409	2.622396E-25	2.645465E-25	2.306846E-27	2.073289E-10	1294.046	8.190
Ho	67	158	157.928941	2.622471E-25	2.645451E-25	2.297926E-27	2.065273E-10	1289.042	8.158
Er	68	158	157.929893	2.622487E-25	2.645437E-25	2.294950E-27	2.062598E-10	1287.373	8.148
Tm	69	158	157.936980	2.622605E-25	2.645423E-25	2.281789E-27	2.050769E-10	1279.990	8.101
Yb	70	158	157.939866	2.622653E-25	2.645409E-25	2.275602E-27	2.045209E-10	1276.519	8.079
Lu	71	158	157.949313	2.622810E-25	2.645395E-25	2.258519E-27	2.029855E-10	1266.936	8.019
Hf	72	158	157.954799	2.622901E-25	2.645381E-25	2.248014E-27	2.020414E-10	1261.044	7.981
Sm	62	159	158.933211	2.639148E-25	2.662270E-25	2.312197E-27	2.078099E-10	1297.047	8.158
Eu	63	159	158.929089	2.639079E-25	2.662256E-25	2.317648E-27	2.082998E-10	1300.105	8.177
Gd	64	159	158.926389	2.639034E-25	2.662242E-25	2.320737E-27	2.085774E-10	1301.838	8.188
Tb	65	159	158.925347	2.639017E-25	2.662228E-25	2.321072E-27	2.086076E-10	1302.026	8.189
Dy	66	159	158.925739	2.639024E-25					

značka	protonové číslo Z	hmotnostní číslo A	relativní hmotnost A_r	hmotnost m [kg]	součet hmotnosti částic v atomu $Z m_p + (A-Z) m_n + Z m_e$ [kg]	hmotnostní schodek Δm [kg]	vazebná energie		vazebná energie připadající na 1 nukleon E_v / A [MeV]
							$E_v = \Delta m c^2$ [J]	[MeV]	
W	74	160	159.968479	2.656339E-25	2.678852E-25	2.251287E-27	2.023356E-10	1262.879	7.893
Gd	64	161	160.929669	2.672300E-25	2.695740E-25	2.344066E-27	2.106742E-10	1314.925	8.167
Tb	65	161	160.927570	2.672265E-25	2.695726E-25	2.346158E-27	2.108621E-10	1316.098	8.175
Dy	66	161	160.926933	2.672254E-25	2.695712E-25	2.345820E-27	2.108318E-10	1315.909	8.173
Ho	67	161	160.927855	2.672270E-25	2.695699E-25	2.342895E-27	2.105689E-10	1314.268	8.163
Er	68	161	160.929995	2.672305E-25	2.695685E-25	2.337946E-27	2.101241E-10	1311.492	8.146
Tm	69	161	160.933549	2.672364E-25	2.695671E-25	2.330650E-27	2.094684E-10	1307.399	8.120
Yb	70	161	160.937902	2.672436E-25	2.695657E-25	2.322028E-27	2.086935E-10	1302.562	8.090
Lu	71	161	160.943572	2.672531E-25	2.695643E-25	2.311218E-27	2.077219E-10	1296.498	8.053
Hf	72	161	160.950275	2.672642E-25	2.695629E-25	2.298693E-27	2.065962E-10	1289.472	8.009
Re	75	161	160.977589	2.673095E-25	2.695587E-25	2.249152E-27	2.021437E-10	1261.682	7.837
Gd	64	162	161.930985	2.688927E-25	2.712490E-25	2.356270E-27	2.117710E-10	1321.771	8.159
Tb	65	162	161.929488	2.688902E-25	2.712476E-25	2.357360E-27	2.118690E-10	1322.382	8.163
Dy	66	162	161.926798	2.688857E-25	2.712462E-25	2.360432E-27	2.121451E-10	1324.106	8.173
Ho	67	162	161.929096	2.688896E-25	2.712448E-25	2.355223E-27	2.116769E-10	1321.184	8.155
Er	68	162	161.928778	2.688890E-25	2.712434E-25	2.354356E-27	2.115989E-10	1320.697	8.152
Tm	69	162	161.933995	2.688977E-25	2.712420E-25	2.344299E-27	2.106951E-10	1315.055	8.118
Yb	70	162	161.935768	2.689006E-25	2.712406E-25	2.339959E-27	2.103050E-10	1312.621	8.103
Lu	71	162	161.943277	2.689131E-25	2.712392E-25	2.326095E-27	2.090590E-10	1304.844	8.055
Hf	72	162	161.947210	2.689196E-25	2.712378E-25	2.318170E-27	2.083467E-10	1300.398	8.027
Ta	73	162	161.957292	2.689364E-25	2.712364E-25	2.300034E-27	2.067168E-10	1290.225	7.964
W	74	162	161.963497	2.689467E-25	2.712350E-25	2.288335E-27	2.056653E-10	1283.662	7.924
Tb	65	163	162.930648	2.705527E-25	2.729225E-25	2.369824E-27	2.129891E-10	1329.374	8.156
Dy	66	163	162.928731	2.705495E-25	2.729211E-25	2.371611E-27	2.131498E-10	1330.377	8.162
Ho	67	163	162.928734	2.705495E-25	2.729197E-25	2.370212E-27	2.130241E-10	1329.592	8.157
Er	68	163	162.930033	2.705517E-25	2.729183E-25	2.366661E-27	2.127049E-10	1327.599	8.145
Tm	69	163	162.932651	2.705560E-25	2.729169E-25	2.360918E-27	2.121888E-10	1324.378	8.125
Yb	70	163	162.936334	2.705621E-25	2.729155E-25	2.353408E-27	2.115137E-10	1320.165	8.099
Lu	71	163	162.941179	2.705702E-25	2.729141E-25	2.343968E-27	2.106654E-10	1314.870	8.067
Hf	72	163	162.947089	2.705800E-25	2.729127E-25	2.332760E-27	2.096580E-10	1308.582	8.028
Ta	73	163	162.954330	2.705920E-25	2.729113E-25	2.319341E-27	2.084519E-10	1301.055	7.982
W	74	163	162.962524	2.706056E-25	2.729099E-25	2.304341E-27	2.071038E-10	1292.640	7.930
Re	75	163	162.972081	2.706215E-25	2.729085E-25	2.287076E-27	2.055522E-10	1282.956	7.871
Tb	65	164	163.933351	2.722177E-25	2.745974E-25	2.379723E-27	2.138789E-10	1334.927	8.140
Dy	66	164	163.929175	2.722108E-25	2.745960E-25	2.385263E-27	2.143768E-10	1338.035	8.159
Ho	67	164	163.930234	2.722125E-25	2.745946E-25	2.382111E-27	2.140934E-10	1336.266	8.148
Er	68	164	163.929200	2.722108E-25	2.745932E-25	2.382432E-27	2.141223E-10	1336.446	8.149
Tm	69	164	163.933560	2.722180E-25	2.745918E-25	2.373797E-27	2.133463E-10	1331.603	8.120
Yb	70	164	163.934489	2.722196E-25	2.745904E-25	2.370860E-27	2.130822E-10	1329.955	8.109
Lu	71	164	163.941339	2.722310E-25	2.745891E-25	2.358091E-27	2.119346E-10	1322.792	8.066
Hf	72	164	163.944367	2.722360E-25	2.745877E-25	2.351668E-27	2.113574E-10	1319.189	8.044
Ta	73	164	163.953534	2.722512E-25	2.745863E-25	2.335051E-27	2.098640E-10	1309.868	7.987
W	74	164	163.958954	2.722602E-25	2.745849E-25	2.324656E-27	2.089297E-10	1304.036	7.951
Os	76	164	163.978036	2.722919E-25	2.745821E-25	2.290182E-27	2.058313E-10	1284.698	7.834
Dy	66	165	164.931703	2.738755E-25	2.762710E-25	2.395453E-27	2.152926E-10	1343.751	8.144
Ho	67	165	164.930322	2.738732E-25	2.762696E-25	2.396352E-27	2.153734E-10	1344.255	8.147
Er	68	165	164.930726	2.738739E-25	2.762682E-25	2.394286E-27	2.151877E-10	1343.096	8.140
Tm	69	165	164.932435	2.738767E-25	2.762668E-25	2.390053E-27	2.148073E-10	1340.722	8.126
Yb	70	165	164.935279	2.738814E-25	2.762654E-25	2.383937E-27	2.142576E-10	1337.291	8.105
Lu	71	165	164.939407	2.738883E-25	2.762640E-25	2.375688E-27	2.135162E-10	1332.663	8.077
Hf	72	165	164.944567	2.738969E-25	2.762626E-25	2.365724E-27	2.126207E-10	1327.074	8.043
Ta	73	165	164.950773	2.739072E-25	2.762612E-25	2.354025E-27	2.115692E-10	1320.511	8.003
W	74	165	164.958280	2.739196E-25	2.762598E-25	2.340164E-27	2.103235E-10	1312.736	7.956
Re	75	165	164.967089	2.739343E-25	2.762584E-25	2.324143E-27	2.088835E-10	1303.748	7.902
Tb	65	166	165.937992	2.755465E-25	2.779473E-25	2.400793E-27	2.157726E-10	1346.746	8.113
Dy	66	166	165.932807	2.755379E-25	2.779459E-25	2.408009E-27	2.164211E-10	1350.794	8.137
Ho	67	166	165.932284	2.755370E-25	2.779445E-25	2.407482E-27	2.163737E-10	1350.499	8.136
Er	68	166	165.930293	2.755337E-25	2.779431E-25	2.409394E-27	2.165455E-10	1351.571	8.142
Tm	69	166	165.933554	2.755391E-25	2.779417E-25	2.402584E-27	2.159335E-10	1347.751	8.119
Yb	70	166	165.933882	2.755397E-25	2.779403E-25	2.400645E-27	2.157592E-10	1346.663	8.112
Lu	71	166	165.939859	2.755496E-25	2.779389E-25	2.389325E-27	2.147419E-10	1340.313	8.074
Hf	72	166	165.942180	2.755534E-25	2.779375E-25	2.384077E-27	2.142701E-10	1337.369	8.056
Ta	73	166	165.950512	2.755673E-25	2.779361E-25	2.368846E-27	2.129013E-10	1328.825	8.005
W	74	166	165.955027	2.755748E-25	2.779347E-25	2.359954E-27	2.121021E-10	1323.837	7.975
Os	76	166	165.972691	2.756041E-25	2.779319E-25	2.327834E-27	2.092153E-10	1305.819	7.866
Dy	66	167	166.935655	2.772031E-25	2.796208E-25	2.417667E-27	2.172891E-10	1356.212	8.121
Ho	67	167	166.933133	2.771990E-25	2.796194E-25	2.420462E-27	2.175402E-10	1357.780	8.130
Er	68	167	166.932048	2.771972E-25	2.796180E-25	2.420868E-27	2.175768E-10	1358.007	8.132
Tm	69	167	166.932852	2.771985E-25	2.796166E-25	2.418139E-27	2.173315E-10	1356.477	8.123
Yb	70	167	166.934950	2.772020E-25	2.796152E-25	2.413261E-27	2.168930E-10	1353.740	8.106
Lu	71	167	166.938270	2.772075E-25	2.796138E-25	2.406352E-27	2.162722E-10	1349.865	8.083
Hf	72	167	166.942600	2.772147E-25	2.796124E-25	2.397768E-27	2.155006E-10	1345.049	8.054
Ta	73	167	166.948093	2.772238E-25	2.796110E-25	2.387252E-27	2.145555E-10	1339.150	8.019
W	74	167	166.954816	2.772350E-25	2.796097E-25	2.374693E-27	2.134268E-10	1332.105	7.977
Os	76	167	166.971548	2.772627E-25	2.796069E-25	2.344120E-27	2.106790E-10	1314.955	7.874
Ir	77	167	166.981665	2.772795E-25	2.796055E-25	2.325925E-27	2.090437E-10	1304.748	7.813
Dy	66	168	167.937129	2.788661E-25	2.812957E-25	2.429609E-27	2.183624E-10	1362.911	8.113
Ho	67	168	167.935516	2.788634E-25	2.812943E-25	2.430893E-27	2.184778E-10	1363.631	8.117
Er	68	168	167.932370	2.788582E-25	2.812929E-25	2.434721E-27	2.188219E-10	1365.779	8.130
Tm	69	168	167.934173	2.788612E-25	2.812916E-25	2.430334E-27	2.184275E-10	1363.317	8.115
Yb	70	168	167.933897	2.788608E-25	2.812902E-25	2.429397E-27	2.183433E-10	1362.792	8.112
Lu	71	168	167.938739	2.788688E-25	2.812888E-25	2.419962E-27	2.174953E-10	1357.499	8.080
Hf	72	168	167.940568	2.788718E-25	2.812874E-25	2.415530E-27	2.170970E-10	1355.013	8.066
Ta	73	168	167.948047	2.788843E-25	2.812860E-25	2.401716E-27	2.158555E-10	1347.264	8.019
W	74	168	167.951808	2.788905E-25	2.812846E-25	2.394076E-27	2.151688E-10	1342.978	7.994
Re	75	168	167.961573	2.789067E-25	2.812832E-25	2.376467E-27	2.135862E-10	1333.101	7.935
Os	76	168	167.967804	2.789171E-25	2.812818E-25	2.364726E-27	2.125310E-10	1326.514	7.896
Pt	78	168	167.988151	2.789509E-25	2.812790E-25	2.328149E-27	2.092436E-10	1305.996	7.774
Dy	66	169	168.940308	2.805319E-25	2.829707E-25	2.438719E-27	2.191811E-10	1368.021	8.095
Ho	67	169	168.936872	2.805262E-25	2.829693E-25	2.443029E-27	2.195685E-10	1370.439	8.109
Er	68	169	168.934590	2.805225E-25	2.829679E-25	2.445423E-27	2.197837E-10	1371.782	8.117
Tm	69	169	168.934213	2.805218E-25					

značka	protonové číslo Z	hmotnostní číslo A	relativní hmotnost A_r	hmotnost m [kg]	součet hmotnosti částic v atomu $Z m_p + (A-Z) m_n + Z m_e$ [kg]	hmotnostní schodek Δm [kg]	vazebná energie		vazebná energie připadající na 1 nukleon E_v / A [MeV]
							$E_v = \Delta m c^2$ [J]	[MeV]	
Os	76	170	169.963577	2.822311E-25	2.846316E-25	2.400521E-27	2.157481E-10	1346.594	7.921
Pt	78	170	169.982495	2.822625E-25	2.846289E-25	2.366317E-27	2.126740E-10	1327.407	7.808
Ho	67	171	170.941465	2.838549E-25	2.863191E-25	2.464179E-27	2.214694E-10	1382.303	8.084
Er	68	171	170.938030	2.838492E-25	2.863177E-25	2.468489E-27	2.218567E-10	1384.721	8.098
Tm	69	171	170.936429	2.838466E-25	2.863163E-25	2.469752E-27	2.219702E-10	1385.429	8.102
Yb	70	171	170.936326	2.838464E-25	2.863149E-25	2.468529E-27	2.218603E-10	1384.743	8.098
Lu	71	171	170.937913	2.838490E-25	2.863135E-25	2.464499E-27	2.214981E-10	1382.482	8.085
Hf	72	171	170.940492	2.838533E-25	2.863122E-25	2.458822E-27	2.209879E-10	1379.298	8.066
Ta	73	171	170.944476	2.838599E-25	2.863108E-25	2.450811E-27	2.202679E-10	1374.804	8.040
W	74	171	170.949451	2.838682E-25	2.863094E-25	2.441156E-27	2.194001E-10	1369.388	8.008
Re	75	171	170.955716	2.838786E-25	2.863080E-25	2.429358E-27	2.183398E-10	1362.770	7.969
Os	76	171	170.963185	2.838910E-25	2.863066E-25	2.415561E-27	2.170998E-10	1355.030	7.924
Ir	77	171	170.971626	2.839050E-25	2.863052E-25	2.400149E-27	2.157147E-10	1346.385	7.874
Pt	78	171	170.981245	2.839210E-25	2.863038E-25	2.382783E-27	2.141538E-10	1336.643	7.817
Au	79	171	170.991879	2.839387E-25	2.863024E-25	2.363729E-27	2.124414E-10	1325.955	7.754
Er	68	172	171.939356	2.855120E-25	2.879927E-25	2.480675E-27	2.229519E-10	1391.557	8.090
Tm	69	172	171.938400	2.855104E-25	2.879913E-25	2.480868E-27	2.229693E-10	1391.665	8.091
Yb	70	172	171.936381	2.855070E-25	2.879899E-25	2.482825E-27	2.231452E-10	1392.763	8.097
Lu	71	172	171.939086	2.855115E-25	2.879885E-25	2.476940E-27	2.226163E-10	1389.462	8.078
Hf	72	172	171.939448	2.855121E-25	2.879871E-25	2.474943E-27	2.224368E-10	1388.341	8.072
Ta	73	172	171.944895	2.855212E-25	2.879857E-25	2.464504E-27	2.214986E-10	1382.486	8.038
W	74	172	171.947292	2.855252E-25	2.879843E-25	2.459129E-27	2.210155E-10	1379.470	8.020
Re	75	172	171.955423	2.855387E-25	2.879829E-25	2.444233E-27	2.196767E-10	1371.114	7.972
Os	76	172	171.960023	2.855463E-25	2.879815E-25	2.435199E-27	2.188648E-10	1366.047	7.942
Pt	78	172	171.977347	2.855751E-25	2.879787E-25	2.403643E-27	2.160287E-10	1348.345	7.839
Hg	80	172	171.998833	2.856107E-25	2.879759E-25	2.365176E-27	2.125714E-10	1326.767	7.714
Tm	69	173	172.939604	2.871729E-25	2.896662E-25	2.493258E-27	2.240828E-10	1398.615	8.084
Yb	70	173	172.938211	2.871706E-25	2.896648E-25	2.494176E-27	2.241653E-10	1399.130	8.087
Lu	71	173	172.938931	2.871718E-25	2.896634E-25	2.491586E-27	2.239326E-10	1397.677	8.079
Hf	72	173	172.940513	2.871744E-25	2.896620E-25	2.487564E-27	2.235711E-10	1395.421	8.066
Ta	73	173	172.943750	2.871798E-25	2.896606E-25	2.480794E-27	2.229626E-10	1391.623	8.044
W	74	173	172.947689	2.871864E-25	2.896592E-25	2.472858E-27	2.22494E-10	1387.172	8.018
Re	75	173	172.953243	2.871956E-25	2.896578E-25	2.462241E-27	2.212952E-10	1381.216	7.984
Os	76	173	172.959808	2.872065E-25	2.896564E-25	2.449944E-27	2.201900E-10	1374.318	7.944
Ir	77	173	172.967502	2.872193E-25	2.896550E-25	2.435775E-27	2.189165E-10	1366.369	7.898
Pt	78	173	172.976445	2.872341E-25	2.896536E-25	2.419530E-27	2.174565E-10	1357.257	7.845
Au	79	173	172.986237	2.872504E-25	2.896522E-25	2.401874E-27	2.158697E-10	1347.353	7.788
Tm	69	174	173.942169	2.888377E-25	2.913411E-25	2.503387E-27	2.249932E-10	1404.297	8.071
Yb	70	174	173.938862	2.888322E-25	2.913397E-25	2.507483E-27	2.253613E-10	1406.595	8.084
Lu	71	174	173.940337	2.888347E-25	2.913383E-25	2.503638E-27	2.250158E-10	1404.438	8.071
Hf	72	174	173.940046	2.888342E-25	2.913369E-25	2.502727E-27	2.249339E-10	1403.927	8.069
Ta	73	174	173.944454	2.888415E-25	2.913355E-25	2.494013E-27	2.241507E-10	1399.039	8.040
W	74	174	173.946079	2.888442E-25	2.913341E-25	2.489920E-27	2.237829E-10	1396.743	8.027
Re	75	174	173.953115	2.888559E-25	2.913327E-25	2.476842E-27	2.226075E-10	1389.407	7.985
Os	76	174	173.957062	2.888625E-25	2.913314E-25	2.468893E-27	2.218930E-10	1384.947	7.959
Ir	77	174	173.966861	2.888787E-25	2.913300E-25	2.451227E-27	2.203053E-10	1375.038	7.903
Pt	78	174	173.972819	2.888886E-25	2.913286E-25	2.439939E-27	2.192908E-10	1368.706	7.866
Hg	80	174	173.992864	2.889219E-25	2.913258E-25	2.403865E-27	2.160486E-10	1348.469	7.750
Tm	69	175	174.943837	2.905010E-25	2.930160E-25	2.515005E-27	2.260374E-10	1410.814	8.062
Yb	70	175	174.941276	2.904968E-25	2.930146E-25	2.517862E-27	2.262942E-10	1412.417	8.071
Lu	71	175	174.940772	2.904959E-25	2.930133E-25	2.517305E-27	2.262441E-10	1412.105	8.069
Hf	72	175	174.941509	2.904972E-25	2.930119E-25	2.514686E-27	2.260087E-10	1410.636	8.061
Ta	73	175	174.943737	2.905009E-25	2.930105E-25	2.509592E-27	2.255509E-10	1407.778	8.044
W	74	175	174.946717	2.905058E-25	2.930091E-25	2.503249E-27	2.249808E-10	1404.220	8.024
Re	75	175	174.951381	2.905136E-25	2.930077E-25	2.494110E-27	2.241594E-10	1399.093	7.995
Os	76	175	174.956946	2.905228E-25	2.930063E-25	2.483475E-27	2.232036E-10	1393.127	7.961
Ir	77	175	174.964113	2.905347E-25	2.930049E-25	2.470179E-27	2.220086E-10	1385.669	7.918
Pt	78	175	174.972421	2.905485E-25	2.930035E-25	2.454989E-27	2.206434E-10	1377.148	7.869
Au	79	175	174.981274	2.905632E-25	2.930021E-25	2.438893E-27	2.191967E-10	1368.119	7.818
Hg	80	175	174.991423	2.905801E-25	2.930007E-25	2.420645E-27	2.175567E-10	1357.882	7.759
Tm	69	176	175.946995	2.921668E-25	2.946910E-25	2.524150E-27	2.268593E-10	1415.944	8.045
Yb	70	176	175.942572	2.921595E-25	2.946896E-25	2.530100E-27	2.273940E-10	1419.282	8.064
Lu	71	176	175.942686	2.921597E-25	2.946882E-25	2.528515E-27	2.272516E-10	1418.393	8.059
Hf	72	176	175.941409	2.921575E-25	2.946868E-25	2.529242E-27	2.273169E-10	1418.801	8.061
Ta	73	176	175.944857	2.921633E-25	2.946854E-25	2.522121E-27	2.266769E-10	1414.806	8.039
W	74	176	175.945634	2.921646E-25	2.946840E-25	2.519436E-27	2.264356E-10	1413.300	8.030
Re	75	176	175.951623	2.921745E-25	2.946826E-25	2.508096E-27	2.254165E-10	1406.939	7.994
Os	76	176	175.954806	2.921798E-25	2.946812E-25	2.501416E-27	2.248161E-10	1403.192	7.973
Ir	77	176	175.963649	2.921945E-25	2.946798E-25	2.485338E-27	2.233710E-10	1394.172	7.921
Pt	78	176	175.968945	2.922033E-25	2.946784E-25	2.475149E-27	2.224553E-10	1388.457	7.889
Hg	80	176	175.987355	2.922338E-25	2.946756E-25	2.441790E-27	2.194571E-10	1369.744	7.783
Yb	70	177	176.945261	2.938245E-25	2.963645E-25	2.540023E-27	2.282859E-10	1424.848	8.050
Lu	71	177	176.943758	2.938220E-25	2.963631E-25	2.541123E-27	2.283848E-10	1425.466	8.053
Hf	72	177	176.943221	2.938211E-25	2.963617E-25	2.540621E-27	2.283396E-10	1425.184	8.052
Ta	73	177	176.944472	2.938232E-25	2.963603E-25	2.537148E-27	2.280275E-10	1423.236	8.041
W	74	177	176.946643	2.938268E-25	2.963589E-25	2.532149E-27	2.275782E-10	1420.431	8.025
Re	75	177	176.950328	2.938329E-25	2.963575E-25	2.524635E-27	2.269029E-10	1416.217	8.001
Os	76	177	176.954965	2.938406E-25	2.963561E-25	2.515540E-27	2.260855E-10	1411.115	7.972
Ir	77	177	176.961302	2.938511E-25	2.963547E-25	2.503624E-27	2.250145E-10	1404.430	7.935
Pt	78	177	176.968469	2.938630E-25	2.963533E-25	2.490327E-27	2.238194E-10	1396.971	7.892
Au	79	177	176.976865	2.938770E-25	2.963520E-25	2.474991E-27	2.224411E-10	1388.368	7.844
Hg	80	177	176.986279	2.938926E-25	2.963506E-25	2.457964E-27	2.209108E-10	1378.817	7.790
Tl	81	177	176.996427	2.939094E-25	2.963492E-25	2.439718E-27	2.192709E-10	1368.581	7.732
Yb	70	178	177.946647	2.954873E-25	2.980394E-25	2.552110E-27	2.293722E-10	1431.629	8.043
Lu	71	178	177.945955	2.954862E-25	2.980380E-25	2.551864E-27	2.293501E-10	1431.491	8.042
Hf	72	178	177.943699	2.954824E-25	2.980366E-25	2.554216E-27	2.295615E-10	1432.810	8.049
Ta	73	178	177.945778	2.954859E-25	2.980352E-25	2.549368E-27	2.291258E-10	1430.091	8.034
W	74	178	177.945876	2.954860E-25	2.980339E-25	2.547811E-27	2.289858E-10	1429.217	8.029
Re	75	178	177.950989	2.954945E-25	2.980325E-25	2.537926E-27	2.280974E-10	1423.672	7.998
Os	76	178	177.953251	2.954983E-25	2.980311E-25	2.532775E-27	2.276345E-10	1420.783	7.982
Ir	77	178	177.961082	2.955113E-25	2.980297E-25	2.518377E-27	2.263404E-10	1412.706	7.937
Pt	78	178	177.965649	2.955189E-25					

značka	protonové číslo Z	hmotnostní číslo A	relativní hmotnost A_r	hmotnost m [kg]	součet hmotnosti částic v atomu $Z m_p + (A-Z) m_n + Z m_e$ [kg]	hmotnostní schodek Δm [kg]	vazebná energie $E_v = \Delta m c^2$		vazebná energie připadající na 1 nukleon E_v / A [MeV]
							[J]	[MeV]	
W	74	180	179.946704	2.988085E-25	3.013837E-25	2.575212E-27	2.314485E-10	1444.588	8.025
Re	75	180	179.950789	2.988153E-25	3.013823E-25	2.567035E-27	2.307136E-10	1440.001	8.000
Os	76	180	179.952379	2.988179E-25	3.013809E-25	2.563000E-27	2.303510E-10	1437.738	7.987
Ir	77	180	179.959229	2.988293E-25	3.013795E-25	2.550230E-27	2.292032E-10	1430.574	7.948
Pt	78	180	179.963031	2.988356E-25	3.013781E-25	2.542522E-27	2.285105E-10	1426.250	7.924
Au	79	180	179.972521	2.988514E-25	3.013767E-25	2.525369E-27	2.269689E-10	1416.628	7.870
Hg	80	180	179.978266	2.988609E-25	3.013753E-25	2.514435E-27	2.259861E-10	1410.494	7.836
Pb	82	180	179.997918	2.988935E-25	3.013726E-25	2.479013E-27	2.228026E-10	1390.624	7.726
Hf	72	181	180.949101	3.004730E-25	3.030614E-25	2.588410E-27	2.326347E-10	1451.992	8.022
Ta	73	181	180.947996	3.004712E-25	3.030600E-25	2.588851E-27	2.326743E-10	1452.239	8.023
W	74	181	180.948197	3.004715E-25	3.030586E-25	2.587122E-27	2.325189E-10	1451.269	8.018
Re	75	181	180.950068	3.004746E-25	3.030572E-25	2.582621E-27	2.321144E-10	1448.744	8.004
Os	76	181	180.953244	3.004799E-25	3.030558E-25	2.575952E-27	2.315150E-10	1445.003	7.983
Ir	77	181	180.957625	3.004872E-25	3.030545E-25	2.567282E-27	2.307358E-10	1440.140	7.957
Pt	78	181	180.963097	3.004963E-25	3.030531E-25	2.556801E-27	2.297938E-10	1434.260	7.924
Au	79	181	180.970079	3.005078E-25	3.030517E-25	2.543813E-27	2.286265E-10	1426.975	7.884
Hg	80	181	180.977819	3.005207E-25	3.030503E-25	2.529565E-27	2.273460E-10	1418.982	7.840
Tl	81	181	180.986257	3.005347E-25	3.030489E-25	2.514159E-27	2.259613E-10	1410.340	7.792
Pb	82	181	180.996624	3.005519E-25	3.030475E-25	2.495550E-27	2.242889E-10	1399.901	7.734
Hf	72	182	181.950554	3.021360E-25	3.047364E-25	2.600386E-27	2.337110E-10	1458.710	8.015
Ta	73	182	181.950152	3.021353E-25	3.047350E-25	2.599659E-27	2.336457E-10	1458.302	8.013
W	74	182	181.948204	3.021321E-25	3.047336E-25	2.601499E-27	2.338110E-10	1459.334	8.018
Re	75	182	181.951210	3.021371E-25	3.047322E-25	2.595113E-27	2.332371E-10	1455.752	7.999
Os	76	182	181.952110	3.021385E-25	3.047308E-25	2.592223E-27	2.329774E-10	1454.131	7.990
Ir	77	182	181.958076	3.021485E-25	3.047294E-25	2.580922E-27	2.319617E-10	1447.791	7.955
Pt	78	182	181.961171	3.021536E-25	3.047280E-25	2.574389E-27	2.313745E-10	1444.126	7.935
Au	79	182	181.969618	3.021676E-25	3.047266E-25	2.558967E-27	2.299885E-10	1435.475	7.887
Hg	80	182	181.974690	3.021760E-25	3.047252E-25	2.549150E-27	2.291062E-10	1429.968	7.857
Tl	81	182	181.985667	3.021943E-25	3.047238E-25	2.529528E-27	2.273426E-10	1418.961	7.796
Pb	82	182	181.992672	3.022059E-25	3.047224E-25	2.516501E-27	2.261719E-10	1411.654	7.756
Hf	72	183	182.953530	3.038014E-25	3.064113E-25	2.609832E-27	2.345600E-10	1464.008	8.000
Ta	73	183	182.951373	3.037979E-25	3.064099E-25	2.612020E-27	2.347567E-10	1465.236	8.007
W	74	183	182.950223	3.037960E-25	3.064085E-25	2.612535E-27	2.348029E-10	1465.525	8.008
Re	75	183	182.950820	3.037969E-25	3.064071E-25	2.610149E-27	2.345885E-10	1464.186	8.001
Os	76	183	182.953126	3.038008E-25	3.064057E-25	2.604925E-27	2.341190E-10	1461.256	7.985
Ir	77	183	182.956846	3.038070E-25	3.064043E-25	2.597352E-27	2.334384E-10	1457.008	7.962
Pt	78	183	182.961597	3.038148E-25	3.064029E-25	2.588070E-27	2.326041E-10	1451.801	7.933
Au	79	183	182.967593	3.038248E-25	3.064015E-25	2.576718E-27	2.315839E-10	1445.433	7.899
Hg	80	183	182.974450	3.038362E-25	3.064001E-25	2.563937E-27	2.304352E-10	1438.263	7.859
Tl	81	183	182.982193	3.038490E-25	3.063987E-25	2.549685E-27	2.291543E-10	1430.269	7.816
Pb	82	183	182.991875	3.038651E-25	3.063973E-25	2.532214E-27	2.275840E-10	1420.468	7.762
Hf	72	184	183.955447	3.054652E-25	3.080862E-25	2.621039E-27	2.355672E-10	1470.295	7.991
Ta	73	184	183.954008	3.054628E-25	3.080848E-25	2.622033E-27	2.356565E-10	1470.853	7.994
W	74	184	183.950931	3.054577E-25	3.080834E-25	2.625747E-27	2.359904E-10	1472.936	8.005
Re	75	184	183.952521	3.054603E-25	3.080820E-25	2.621713E-27	2.356278E-10	1470.673	7.993
Os	76	184	183.952489	3.054603E-25	3.080806E-25	2.620371E-27	2.355072E-10	1469.920	7.989
Ir	77	184	183.957476	3.054685E-25	3.080792E-25	2.610695E-27	2.346376E-10	1464.493	7.959
Pt	78	184	183.959922	3.054726E-25	3.080778E-25	2.605239E-27	2.341472E-10	1461.432	7.943
Au	79	184	183.967452	3.054851E-25	3.080764E-25	2.591341E-27	2.328981E-10	1453.636	7.900
Hg	80	184	183.971713	3.054922E-25	3.080750E-25	2.582870E-27	2.321368E-10	1448.884	7.874
Tl	81	184	183.981873	3.055090E-25	3.080737E-25	2.564604E-27	2.304952E-10	1438.638	7.819
Pb	82	184	183.988142	3.055195E-25	3.080723E-25	2.552800E-27	2.294342E-10	1432.016	7.783
Ta	73	185	184.955559	3.071259E-25	3.097597E-25	2.633845E-27	2.367182E-10	1477.479	7.986
W	74	185	184.953419	3.071223E-25	3.097583E-25	2.636004E-27	2.369122E-10	1478.690	7.993
Re	75	185	184.952955	3.071216E-25	3.097569E-25	2.635380E-27	2.368562E-10	1478.340	7.991
Os	76	185	184.954042	3.071234E-25	3.097556E-25	2.632180E-27	2.365686E-10	1476.545	7.981
Ir	77	185	184.956698	3.071278E-25	3.097542E-25	2.626376E-27	2.360469E-10	1473.289	7.964
Pt	78	185	184.960619	3.071343E-25	3.097528E-25	2.618470E-27	2.353364E-10	1468.854	7.940
Au	79	185	184.965789	3.071429E-25	3.097514E-25	2.608490E-27	2.344394E-10	1463.256	7.909
Hg	80	185	184.971899	3.071530E-25	3.097500E-25	2.596950E-27	2.334022E-10	1456.782	7.874
Tl	81	185	184.978791	3.071645E-25	3.097486E-25	2.584110E-27	2.322483E-10	1449.580	7.836
Pb	82	185	184.987610	3.071791E-25	3.097472E-25	2.568072E-27	2.308068E-10	1440.583	7.787
Ta	73	186	185.958552	3.087914E-25	3.114347E-25	2.643264E-27	2.375647E-10	1482.762	7.972
W	74	186	185.954364	3.087844E-25	3.114333E-25	2.648824E-27	2.380644E-10	1485.881	7.989
Re	75	186	185.954986	3.087855E-25	3.114319E-25	2.646396E-27	2.378462E-10	1484.519	7.981
Os	76	186	185.953838	3.087836E-25	3.114305E-25	2.646908E-27	2.378922E-10	1484.806	7.983
Ir	77	186	185.957946	3.087904E-25	3.114291E-25	2.638692E-27	2.371538E-10	1480.198	7.958
Pt	78	186	185.959351	3.087927E-25	3.114277E-25	2.634964E-27	2.368188E-10	1478.107	7.947
Au	79	186	185.965953	3.088037E-25	3.114263E-25	2.622607E-27	2.357082E-10	1471.175	7.910
Hg	80	186	185.969362	3.088094E-25	3.114249E-25	2.615552E-27	2.350740E-10	1467.217	7.888
Tl	81	186	185.978325	3.088242E-25	3.114235E-25	2.599273E-27	2.336110E-10	1458.085	7.839
Pb	82	186	185.984239	3.088341E-25	3.114221E-25	2.588058E-27	2.326031E-10	1451.794	7.805
Bi	83	186	185.996598	3.088546E-25	3.114207E-25	2.566141E-27	2.306333E-10	1439.500	7.739
W	74	187	186.957160	3.104496E-25	3.131082E-25	2.658568E-27	2.389402E-10	1491.348	7.975
Re	75	187	186.955753	3.104473E-25	3.131068E-25	2.659511E-27	2.390249E-10	1491.876	7.978
Os	76	187	186.955750	3.104473E-25	3.131054E-25	2.658121E-27	2.389000E-10	1491.096	7.974
Ir	77	187	186.957363	3.104500E-25	3.131040E-25	2.654048E-27	2.385339E-10	1488.812	7.962
Pt	78	187	186.960587	3.104553E-25	3.131026E-25	2.647300E-27	2.379275E-10	1485.027	7.941
Au	79	187	186.964568	3.104619E-25	3.131012E-25	2.639296E-27	2.372081E-10	1480.536	7.917
Hg	80	187	186.969814	3.104706E-25	3.130998E-25	2.629189E-27	2.362997E-10	1474.867	7.887
Tl	81	187	186.975906	3.104808E-25	3.130984E-25	2.617679E-27	2.352652E-10	1468.410	7.852
Pb	82	187	186.983918	3.104941E-25	3.130970E-25	2.602979E-27	2.339441E-10	1460.164	7.808
Bi	83	187	186.993158	3.105094E-25	3.130956E-25	2.586242E-27	2.324398E-10	1450.775	7.758
W	74	188	187.958489	3.121124E-25	3.147831E-25	2.670751E-27	2.400351E-10	1498.181	7.969
Re	75	188	187.958114	3.121118E-25	3.147817E-25	2.669978E-27	2.399657E-10	1497.748	7.967
Os	76	188	187.955838	3.121080E-25	3.147803E-25	2.672363E-27	2.401800E-10	1499.086	7.974
Ir	77	188	187.958853	3.121130E-25	3.147789E-25	2.665962E-27	2.396047E-10	1495.495	7.955
Pt	78	188	187.959395	3.121139E-25	3.147775E-25	2.663667E-27	2.393985E-10	1494.208	7.948
Au	79	188	187.965324	3.121237E-25	3.147762E-25	2.652428E-27	2.383884E-10	1487.903	7.914
Hg	80	188	187.967577	3.121275E-25	3.147748E-25	2.647292E-27	2.379267E-10	1485.022	7.899
Tl	81	188	187.976010	3.121415E-25	3.147734E-25	2.631894E-27	2.365429E-10	1476.385	7.853
Pb	82	188	187.980874	3.121495E-25	3.147720E				

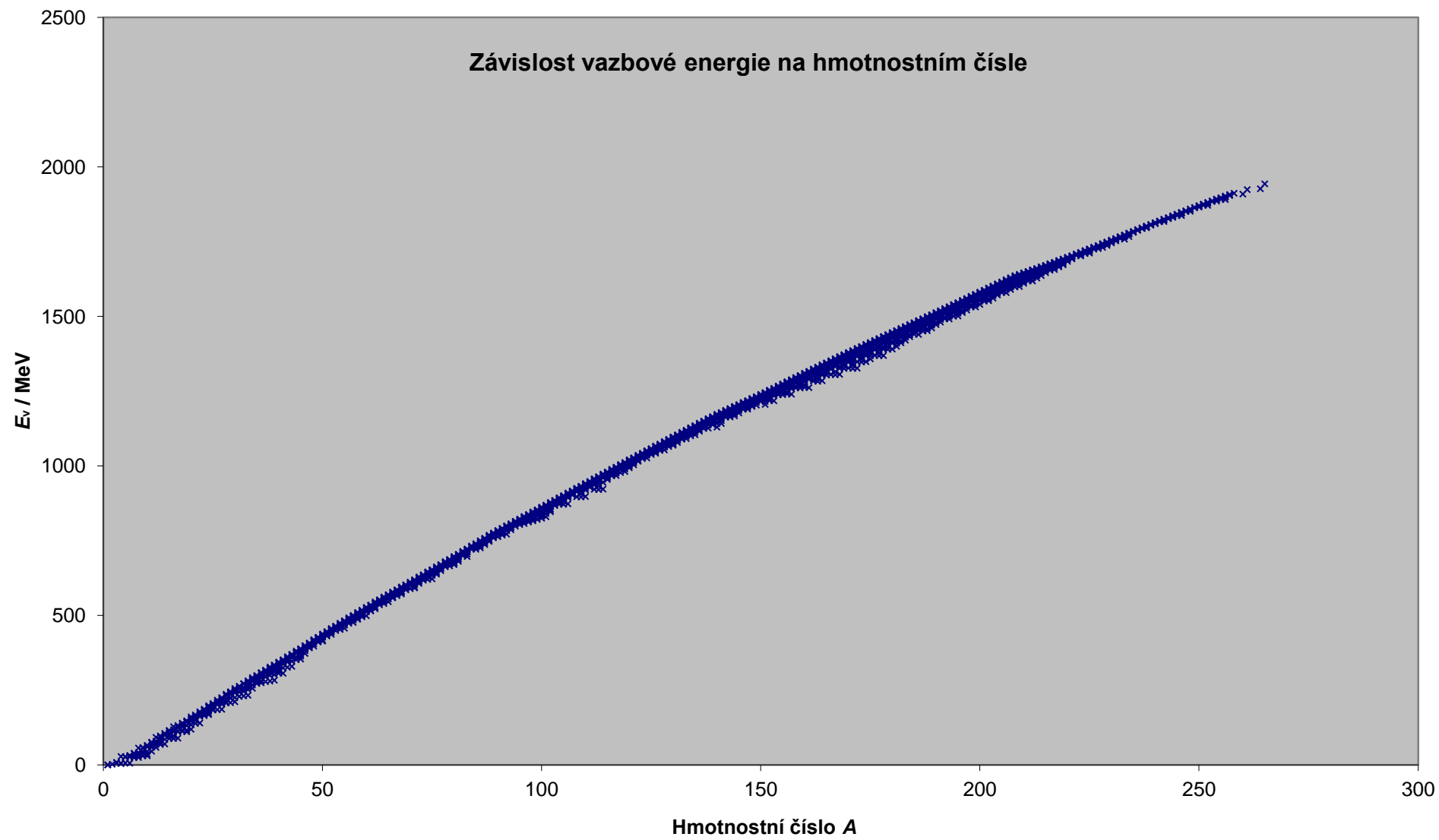
značka	protonové číslo Z	hmotnostní číslo A	relativní hmotnost A_r	hmotnost m [kg]	součet hmotnosti částic v atomu $Z m_p + (A-Z) m_n + Z m_e$ [kg]	hmotnostní schodek Δm [kg]	vazebná energie $E_v = \Delta m c^2$		vazebná energie připadající na 1 nukleon E_v / A [MeV]
							[J]	[MeV]	
Pt	78	190	189.959932	3.154358E-25	3.181274E-25	2.691554E-27	2.419048E-10	1509.851	7.947
Au	79	190	189.964700	3.154438E-25	3.181260E-25	2.682240E-27	2.410677E-10	1504.627	7.919
Hg	80	190	189.966322	3.154465E-25	3.181246E-25	2.678152E-27	2.407003E-10	1502.333	7.907
Tl	81	190	189.973877	3.154590E-25	3.181232E-25	2.664213E-27	2.394475E-10	1494.514	7.866
Pb	82	190	189.978082	3.154660E-25	3.181218E-25	2.655836E-27	2.386947E-10	1489.815	7.841
Bi	83	190	189.988295	3.154829E-25	3.181204E-25	2.637482E-27	2.370450E-10	1479.519	7.787
Po	84	190	189.995101	3.154942E-25	3.181190E-25	2.624785E-27	2.359039E-10	1472.397	7.749
Re	75	191	190.963125	3.171017E-25	3.198065E-25	2.704823E-27	2.430974E-10	1517.294	7.944
Os	76	191	190.960930	3.170980E-25	3.198051E-25	2.707074E-27	2.432997E-10	1518.557	7.951
Ir	77	191	190.960594	3.170975E-25	3.198037E-25	2.706237E-27	2.432244E-10	1518.088	7.948
Pt	78	191	190.961677	3.170993E-25	3.198023E-25	2.703044E-27	2.429375E-10	1516.297	7.939
Au	79	191	190.963704	3.171027E-25	3.198009E-25	2.698283E-27	2.425096E-10	1513.626	7.925
Hg	80	191	190.967157	3.171084E-25	3.197995E-25	2.691155E-27	2.418689E-10	1509.627	7.904
Tl	81	191	190.971786	3.171161E-25	3.197981E-25	2.682073E-27	2.410527E-10	1504.533	7.877
Pb	82	191	190.978265	3.171268E-25	3.197968E-25	2.669920E-27	2.399605E-10	1497.716	7.841
Bi	83	191	190.985786	3.171393E-25	3.197954E-25	2.656036E-27	2.387127E-10	1489.927	7.801
Po	84	191	190.994574	3.171539E-25	3.197940E-25	2.640048E-27	2.372757E-10	1480.959	7.754
Os	76	192	191.961481	3.187595E-25	3.214800E-25	2.720547E-27	2.445106E-10	1526.115	7.949
Ir	77	192	191.962605	3.187614E-25	3.214787E-25	2.717286E-27	2.442175E-10	1524.286	7.939
Pt	78	192	191.961038	3.187588E-25	3.214773E-25	2.718493E-27	2.443260E-10	1524.963	7.943
Au	79	192	191.964813	3.187650E-25	3.214759E-25	2.710830E-27	2.436373E-10	1520.664	7.920
Hg	80	192	191.965634	3.187664E-25	3.214745E-25	2.708072E-27	2.433893E-10	1519.117	7.912
Tl	81	192	191.972225	3.187773E-25	3.214731E-25	2.695733E-27	2.422804E-10	1512.195	7.876
Pb	82	192	191.975785	3.187833E-25	3.214717E-25	2.688426E-27	2.416237E-10	1508.097	7.855
Bi	83	192	191.985458	3.187993E-25	3.214703E-25	2.670970E-27	2.400548E-10	1498.304	7.804
Po	84	192	191.991335	3.188091E-25	3.214689E-25	2.659816E-27	2.390523E-10	1492.047	7.771
Os	76	193	192.964152	3.204245E-25	3.231550E-25	2.730501E-27	2.454052E-10	1531.699	7.936
Ir	77	193	192.962926	3.204224E-25	3.231536E-25	2.731141E-27	2.454627E-10	1532.058	7.938
Pt	78	193	192.962987	3.204225E-25	3.231522E-25	2.729645E-27	2.453282E-10	1531.218	7.934
Au	79	193	192.964150	3.204245E-25	3.231508E-25	2.726320E-27	2.450294E-10	1529.353	7.924
Hg	80	193	192.966665	3.204286E-25	3.231494E-25	2.720748E-27	2.445286E-10	1526.228	7.908
Tl	81	193	192.970672	3.204353E-25	3.231480E-25	2.712700E-27	2.438053E-10	1521.713	7.885
Pb	82	193	192.976173	3.204444E-25	3.231466E-25	2.702171E-27	2.428590E-10	1515.807	7.854
Bi	83	193	192.982960	3.204557E-25	3.231452E-25	2.689507E-27	2.417208E-10	1508.703	7.817
Po	84	193	192.991025	3.204691E-25	3.231438E-25	2.674719E-27	2.403917E-10	1500.407	7.774
At	85	193	192.999843	3.204837E-25	3.231424E-25	2.658682E-27	2.389504E-10	1491.411	7.728
Os	76	194	193.965182	3.220867E-25	3.248299E-25	2.743178E-27	2.465445E-10	1538.810	7.932
Ir	77	194	193.965078	3.220866E-25	3.248285E-25	2.741956E-27	2.464347E-10	1538.124	7.928
Pt	78	194	193.962680	3.220826E-25	3.248271E-25	2.744543E-27	2.466672E-10	1539.576	7.936
Au	79	194	193.965365	3.220870E-25	3.248257E-25	2.738690E-27	2.461412E-10	1536.292	7.919
Hg	80	194	193.965439	3.220871E-25	3.248243E-25	2.737172E-27	2.460048E-10	1535.441	7.915
Tl	81	194	193.971200	3.220967E-25	3.248229E-25	2.726212E-27	2.450197E-10	1529.293	7.883
Pb	82	194	193.974012	3.221014E-25	3.248215E-25	2.720148E-27	2.444747E-10	1525.891	7.865
Bi	83	194	193.982834	3.221160E-25	3.248201E-25	2.704104E-27	2.430327E-10	1516.891	7.819
Po	84	194	193.988186	3.221249E-25	3.248187E-25	2.693823E-27	2.421087E-10	1511.124	7.789
At	85	194	193.998725	3.221424E-25	3.248173E-25	2.674927E-27	2.404104E-10	1500.524	7.735
Os	76	195	194.968127	3.237522E-25	3.265048E-25	2.752677E-27	2.473983E-10	1544.139	7.919
Ir	77	195	194.965980	3.237486E-25	3.265034E-25	2.754847E-27	2.475933E-10	1545.356	7.925
Pt	78	195	194.964791	3.237466E-25	3.265020E-25	2.755426E-27	2.476454E-10	1545.681	7.927
Au	79	195	194.965035	3.237470E-25	3.265006E-25	2.753627E-27	2.474837E-10	1544.672	7.921
Hg	80	195	194.966720	3.237498E-25	3.264992E-25	2.749434E-27	2.471068E-10	1542.319	7.909
Tl	81	195	194.969774	3.237549E-25	3.264979E-25	2.742968E-27	2.465256E-10	1538.692	7.891
Pb	82	195	194.974542	3.237628E-25	3.264965E-25	2.733656E-27	2.456887E-10	1533.469	7.864
Bi	83	195	194.980651	3.237729E-25	3.264951E-25	2.722118E-27	2.446517E-10	1526.996	7.831
Po	84	195	194.988111	3.237853E-25	3.264937E-25	2.708335E-27	2.434130E-10	1519.265	7.791
At	85	195	194.996268	3.237989E-25	3.264923E-25	2.693395E-27	2.420703E-10	1510.884	7.748
Rn	86	195	195.005438	3.238141E-25	3.264909E-25	2.676774E-27	2.405765E-10	1501.560	7.700
Os	76	196	195.969639	3.254152E-25	3.281798E-25	2.764553E-27	2.484657E-10	1550.801	7.912
Ir	77	196	195.968397	3.254131E-25	3.281784E-25	2.765222E-27	2.485258E-10	1551.176	7.914
Pt	78	196	195.964952	3.254074E-25	3.281770E-25	2.769548E-27	2.489146E-10	1553.603	7.927
Au	79	196	195.966570	3.254101E-25	3.281756E-25	2.765467E-27	2.485477E-10	1551.313	7.915
Hg	80	196	195.965833	3.254089E-25	3.281742E-25	2.765296E-27	2.485324E-10	1551.217	7.914
Tl	81	196	195.970481	3.254166E-25	3.281728E-25	2.756182E-27	2.477133E-10	1546.105	7.888
Pb	82	196	195.972774	3.254204E-25	3.281714E-25	2.750980E-27	2.472458E-10	1543.187	7.873
Bi	83	196	195.980667	3.254335E-25	3.281700E-25	2.736480E-27	2.459425E-10	1535.053	7.832
Po	84	196	195.985535	3.254416E-25	3.281686E-25	2.727002E-27	2.450907E-10	1529.736	7.805
At	85	196	195.995788	3.254586E-25	3.281672E-25	2.708581E-27	2.434351E-10	1519.402	7.752
Rn	86	196	196.002115	3.254691E-25	3.281658E-25	2.696680E-27	2.423655E-10	1512.726	7.718
Ir	77	197	196.969653	3.270758E-25	3.298533E-25	2.777524E-27	2.496314E-10	1558.077	7.909
Pt	78	197	196.967340	3.270719E-25	3.298519E-25	2.779970E-27	2.498513E-10	1559.449	7.916
Au	79	197	196.966569	3.270706E-25	3.298505E-25	2.779857E-27	2.498411E-10	1559.385	7.916
Hg	80	197	196.967213	3.270717E-25	3.298491E-25	2.777392E-27	2.496196E-10	1558.003	7.909
Tl	81	197	196.969575	3.270756E-25	3.298477E-25	2.772076E-27	2.491418E-10	1555.021	7.894
Pb	82	197	196.973431	3.270820E-25	3.298463E-25	2.764278E-27	2.484409E-10	1550.646	7.871
Bi	83	197	196.978864	3.270911E-25	3.298449E-25	2.753861E-27	2.475047E-10	1544.803	7.842
Po	84	197	196.985660	3.271023E-25	3.298435E-25	2.741182E-27	2.463652E-10	1537.691	7.806
At	85	197	196.993189	3.271148E-25	3.298421E-25	2.727285E-27	2.451161E-10	1529.895	7.766
Rn	86	197	197.001584	3.271288E-25	3.298407E-25	2.711950E-27	2.437379E-10	1521.292	7.722
Pt	78	198	197.967893	3.287334E-25	3.315268E-25	2.793441E-27	2.510620E-10	1567.006	7.914
Au	79	198	197.968242	3.287340E-25	3.315254E-25	2.791466E-27	2.508845E-10	1565.898	7.909
Hg	80	198	197.966769	3.287315E-25	3.315240E-25	2.792518E-27	2.509790E-10	1566.488	7.912
Tl	81	198	197.970483	3.287377E-25	3.315226E-25	2.784955E-27	2.502993E-10	1562.245	7.890
Pb	82	198	197.972034	3.287403E-25	3.315212E-25	2.780986E-27	2.499426E-10	1560.019	7.879
Bi	83	198	197.979206	3.287522E-25	3.315198E-25	2.767682E-27	2.487469E-10	1552.556	7.841
Po	84	198	197.983389	3.287591E-25	3.315185E-25	2.759342E-27	2.479973E-10	1547.877	7.818
At	85	198	197.992837	3.287748E-25	3.315171E-25	2.742258E-27	2.464618E-10	1538.294	7.769
Rn	86	198	197.998679	3.287845E-25	3.315157E-25	2.731163E-27	2.454647E-10	1532.070	7.738
Ir	77	199	198.973805	3.304037E-25	3.332031E-25	2.799407E-27	2.515982E-10	1570.353	7.891
Pt	78	199	198.970593	3.303984E-25	3.332017E-25	2.803346E-27	2.519521E-10	1572.562	7.902
Au	79	199	198.968765	3.303954E-25	3.332004E-25	2.804986E-27	2.520996E-10	1573.482	7.907
Hg	80	199	198.968280	3.303946E-25	3.331990E-25	2.804397E-27	2.520467E-10	1573.152	7.905
Tl	81	199	198.969877	3.303972E-25	3.331976E-2				

značka	protonové číslo Z	hmotnostní číslo A	relativní hmotnost A_r	hmotnost m [kg]	součet hmotnosti částic v atomu $Z m_p + (A-Z) m_n + Z m_e$ [kg]	hmotnostní schodek Δm [kg]	vazebná energie		vazebná energie připadající na 1 nukleon E_v / A [MeV]
							$E_v = \Delta m c^2$ [J]	[MeV]	
Au	79	201	200.971657	3.337212E-25	3.365502E-25	2.828961E-27	2.542543E-10	1586.931	7.895
Hg	80	201	200.970302	3.337190E-25	3.365488E-25	2.829816E-27	2.543312E-10	1587.411	7.898
Tl	81	201	200.970819	3.337199E-25	3.365474E-25	2.827564E-27	2.541287E-10	1586.147	7.891
Pb	82	201	200.972885	3.337233E-25	3.365460E-25	2.822739E-27	2.536951E-10	1583.441	7.878
Bi	83	201	200.977009	3.337301E-25	3.365446E-25	2.814495E-27	2.529542E-10	1578.816	7.855
Po	84	201	200.982260	3.337389E-25	3.365432E-25	2.804382E-27	2.520453E-10	1573.143	7.827
At	85	201	200.988417	3.337491E-25	3.365418E-25	2.792763E-27	2.510010E-10	1566.625	7.794
Rn	86	201	200.995628	3.337611E-25	3.365404E-25	2.779393E-27	2.497994E-10	1559.125	7.757
Fr	87	201	201.003861	3.337747E-25	3.365391E-25	2.764328E-27	2.484454E-10	1550.675	7.715
Au	79	202	201.973806	3.353854E-25	3.382251E-25	2.839781E-27	2.552268E-10	1593.001	7.886
Hg	80	202	201.970643	3.353801E-25	3.382237E-25	2.843639E-27	2.555735E-10	1595.164	7.897
Tl	81	202	201.972106	3.353825E-25	3.382223E-25	2.839815E-27	2.552298E-10	1593.020	7.886
Pb	82	202	201.972159	3.353826E-25	3.382210E-25	2.838332E-27	2.550965E-10	1592.188	7.882
Bi	83	202	201.977742	3.353919E-25	3.382196E-25	2.827666E-27	2.541380E-10	1586.204	7.852
Po	84	202	201.980758	3.353969E-25	3.382182E-25	2.821265E-27	2.535626E-10	1582.613	7.835
At	85	202	201.988630	3.354100E-25	3.382168E-25	2.806797E-27	2.522623E-10	1574.498	7.795
Rn	86	202	201.993263	3.354177E-25	3.382154E-25	2.797709E-27	2.514455E-10	1569.400	7.769
Fr	87	202	202.003373	3.354345E-25	3.382140E-25	2.779527E-27	2.498114E-10	1559.200	7.719
Ra	88	202	202.009891	3.354453E-25	3.382126E-25	2.767309E-27	2.487134E-10	1552.347	7.685
Au	79	203	202.975155	3.370481E-25	3.399001E-25	2.851930E-27	2.563187E-10	1599.816	7.881
Hg	80	203	202.972872	3.370443E-25	3.398987E-25	2.854325E-27	2.565339E-10	1601.159	7.887
Tl	81	203	202.972344	3.370435E-25	3.398973E-25	2.853808E-27	2.564874E-10	1600.869	7.886
Pb	82	203	202.973391	3.370452E-25	3.398959E-25	2.850676E-27	2.562059E-10	1599.112	7.877
Bi	83	203	202.976876	3.370510E-25	3.398945E-25	2.843493E-27	2.555604E-10	1595.083	7.858
Po	84	203	202.981420	3.370585E-25	3.398931E-25	2.834553E-27	2.547569E-10	1590.068	7.833
At	85	203	202.986942	3.370677E-25	3.398917E-25	2.823989E-27	2.538075E-10	1584.142	7.804
Rn	86	203	202.993387	3.370784E-25	3.398903E-25	2.811893E-27	2.527203E-10	1577.356	7.770
Fr	87	203	203.000925	3.370909E-25	3.398889E-25	2.797981E-27	2.514700E-10	1569.552	7.732
Ra	88	203	203.009272	3.371048E-25	3.398875E-25	2.782726E-27	2.500989E-10	1560.995	7.690
Hg	80	204	203.973494	3.387059E-25	3.415736E-25	2.867681E-27	2.577344E-10	1608.651	7.886
Tl	81	204	203.973864	3.387065E-25	3.415722E-25	2.865673E-27	2.575539E-10	1607.525	7.880
Pb	82	204	203.973044	3.387052E-25	3.415708E-25	2.865640E-27	2.575509E-10	1607.506	7.880
Bi	83	204	203.977813	3.387131E-25	3.415694E-25	2.856326E-27	2.567138E-10	1602.282	7.854
Po	84	204	203.980318	3.387172E-25	3.415680E-25	2.850771E-27	2.562145E-10	1599.165	7.839
At	85	204	203.987251	3.387288E-25	3.415666E-25	2.837864E-27	2.550545E-10	1591.925	7.804
Rn	86	204	203.991429	3.387357E-25	3.415652E-25	2.829532E-27	2.543057E-10	1587.251	7.781
Fr	87	204	204.000653	3.387510E-25	3.415638E-25	2.812820E-27	2.528037E-10	1577.876	7.735
Ra	88	204	204.006500	3.387607E-25	3.415624E-25	2.801717E-27	2.518058E-10	1571.648	7.704
Hg	80	205	204.976073	3.403707E-25	3.432485E-25	2.877787E-27	2.586426E-10	1614.320	7.875
Tl	81	205	204.974428	3.403680E-25	3.432471E-25	2.879125E-27	2.587628E-10	1615.071	7.878
Pb	82	205	204.974482	3.403681E-25	3.432457E-25	2.877640E-27	2.586294E-10	1614.238	7.874
Bi	83	205	204.977389	3.403729E-25	3.432443E-25	2.871418E-27	2.580701E-10	1610.747	7.857
Po	84	205	204.981203	3.403793E-25	3.432429E-25	2.863690E-27	2.573756E-10	1606.412	7.836
At	85	205	204.986074	3.403873E-25	3.432415E-25	2.854206E-27	2.565233E-10	1601.092	7.810
Rn	86	205	204.991719	3.403967E-25	3.432402E-25	2.843439E-27	2.555556E-10	1595.052	7.781
Fr	87	205	204.998594	3.404081E-25	3.432388E-25	2.830628E-27	2.544042E-10	1587.866	7.746
Ra	88	205	205.006269	3.404209E-25	3.432374E-25	2.816489E-27	2.531334E-10	1579.935	7.707
Hg	80	206	205.977514	3.420337E-25	3.449234E-25	2.889783E-27	2.597207E-10	1621.049	7.869
Tl	81	206	205.976110	3.420313E-25	3.449221E-25	2.890719E-27	2.598049E-10	1621.575	7.872
Pb	82	206	205.974465	3.420286E-25	3.449207E-25	2.892056E-27	2.599250E-10	1622.325	7.875
Bi	83	206	205.978499	3.420353E-25	3.449193E-25	2.883963E-27	2.591977E-10	1617.785	7.853
Po	84	206	205.980481	3.420386E-25	3.449179E-25	2.879277E-27	2.587765E-10	1615.156	7.841
At	85	206	205.986667	3.420489E-25	3.449165E-25	2.867611E-27	2.577280E-10	1608.612	7.809
Rn	86	206	205.990214	3.420548E-25	3.449151E-25	2.860326E-27	2.570733E-10	1604.525	7.789
Fr	87	206	205.998666	3.420688E-25	3.449137E-25	2.844897E-27	2.556866E-10	1595.870	7.747
Ra	88	206	206.003827	3.420774E-25	3.449123E-25	2.834932E-27	2.547909E-10	1590.280	7.720
Ac	89	206	206.014505	3.420951E-25	3.449109E-25	2.815806E-27	2.530720E-10	1579.552	7.668
Hg	80	207	206.982589	3.437026E-25	3.465984E-25	2.895745E-27	2.602566E-10	1624.394	7.847
Tl	81	207	206.977419	3.436940E-25	3.465970E-25	2.902934E-27	2.609027E-10	1628.426	7.867
Pb	82	207	206.975897	3.436915E-25	3.465956E-25	2.904067E-27	2.610046E-10	1629.062	7.870
Bi	83	207	206.978471	3.436958E-25	3.465942E-25	2.898399E-27	2.604951E-10	1625.883	7.855
Po	84	207	206.981593	3.437010E-25	3.465928E-25	2.891819E-27	2.599037E-10	1622.192	7.837
At	85	207	206.985784	3.437079E-25	3.465914E-25	2.883466E-27	2.591530E-10	1617.506	7.814
Rn	86	207	206.990734	3.437162E-25	3.465900E-25	2.873851E-27	2.582888E-10	1612.112	7.788
Fr	87	207	206.996949	3.437265E-25	3.465886E-25	2.862136E-27	2.572359E-10	1605.540	7.756
Ra	88	207	207.003798	3.437379E-25	3.465872E-25	2.849368E-27	2.560885E-10	1598.379	7.722
Ac	89	207	207.011950	3.437514E-25	3.465858E-25	2.834438E-27	2.547466E-10	1590.003	7.681
Tl	81	208	207.982019	3.453622E-25	3.482719E-25	2.909685E-27	2.615094E-10	1632.214	7.847
Pb	82	208	207.976652	3.453533E-25	3.482705E-25	2.917202E-27	2.621850E-10	1636.430	7.867
Bi	83	208	207.979742	3.453584E-25	3.482691E-25	2.910676E-27	2.615985E-10	1632.769	7.850
Po	84	208	207.981246	3.453609E-25	3.482677E-25	2.906785E-27	2.612488E-10	1630.587	7.839
At	85	208	207.986590	3.453698E-25	3.482663E-25	2.896516E-27	2.603258E-10	1624.826	7.812
Rn	86	208	207.989642	3.453749E-25	3.482649E-25	2.890052E-27	2.597449E-10	1621.200	7.794
Fr	87	208	207.997139	3.453873E-25	3.482635E-25	2.876210E-27	2.585008E-10	1613.435	7.757
Ra	88	208	208.001840	3.453951E-25	3.482621E-25	2.867008E-27	2.576739E-10	1608.274	7.732
Ac	89	208	208.011552	3.454113E-25	3.482608E-25	2.849487E-27	2.560991E-10	1598.445	7.685
Tl	81	209	208.985359	3.470283E-25	3.499468E-25	2.918527E-27	2.623041E-10	1637.173	7.833
Pb	82	209	208.981090	3.470212E-25	3.499454E-25	2.924221E-27	2.628158E-10	1640.368	7.849
Bi	83	209	208.980399	3.470201E-25	3.499440E-25	2.923974E-27	2.627937E-10	1640.229	7.848
Po	84	209	208.982430	3.470234E-25	3.499427E-25	2.919206E-27	2.623651E-10	1637.554	7.835
At	85	209	208.986173	3.470297E-25	3.499413E-25	2.911596E-27	2.616812E-10	1633.286	7.815
Rn	86	209	208.990415	3.470367E-25	3.499399E-25	2.903158E-27	2.609228E-10	1628.552	7.792
Fr	87	209	208.995954	3.470459E-25	3.499385E-25	2.892566E-27	2.599709E-10	1622.611	7.764
Ra	88	209	209.001991	3.470559E-25	3.499371E-25	2.881145E-27	2.589444E-10	1616.204	7.733
Ac	89	209	209.009495	3.470684E-25	3.499357E-25	2.867291E-27	2.576993E-10	1608.432	7.696
Th	90	209	209.017716	3.470820E-25	3.499343E-25	2.852245E-27	2.563470E-10	1599.992	7.655
Pa	81	210	209.990074	3.486967E-25	3.516218E-25	2.925086E-27	2.628936E-10	1640.853	7.814
Pb	82	210	209.984189	3.486869E-25	3.516204E-25	2.933464E-27	2.636466E-10	1645.553	7.836
Bi	83	210	209.984120	3.486868E-25	3.516190E-25	2.932183E-27	2.635314E-10	1644.834	7.833
Po	84	210	209.982874	3.486847E-25	3.516176E-25	2.932858E-27	2.635921E-10	1645.213	7.834
At	85	210	209.987148	3.486918E-25	3.516162E-25	2.924366E-27	2.628289E-10	1640.449	7.812
Rn	86	210	209.989696	3.486961E-25	3.51614				

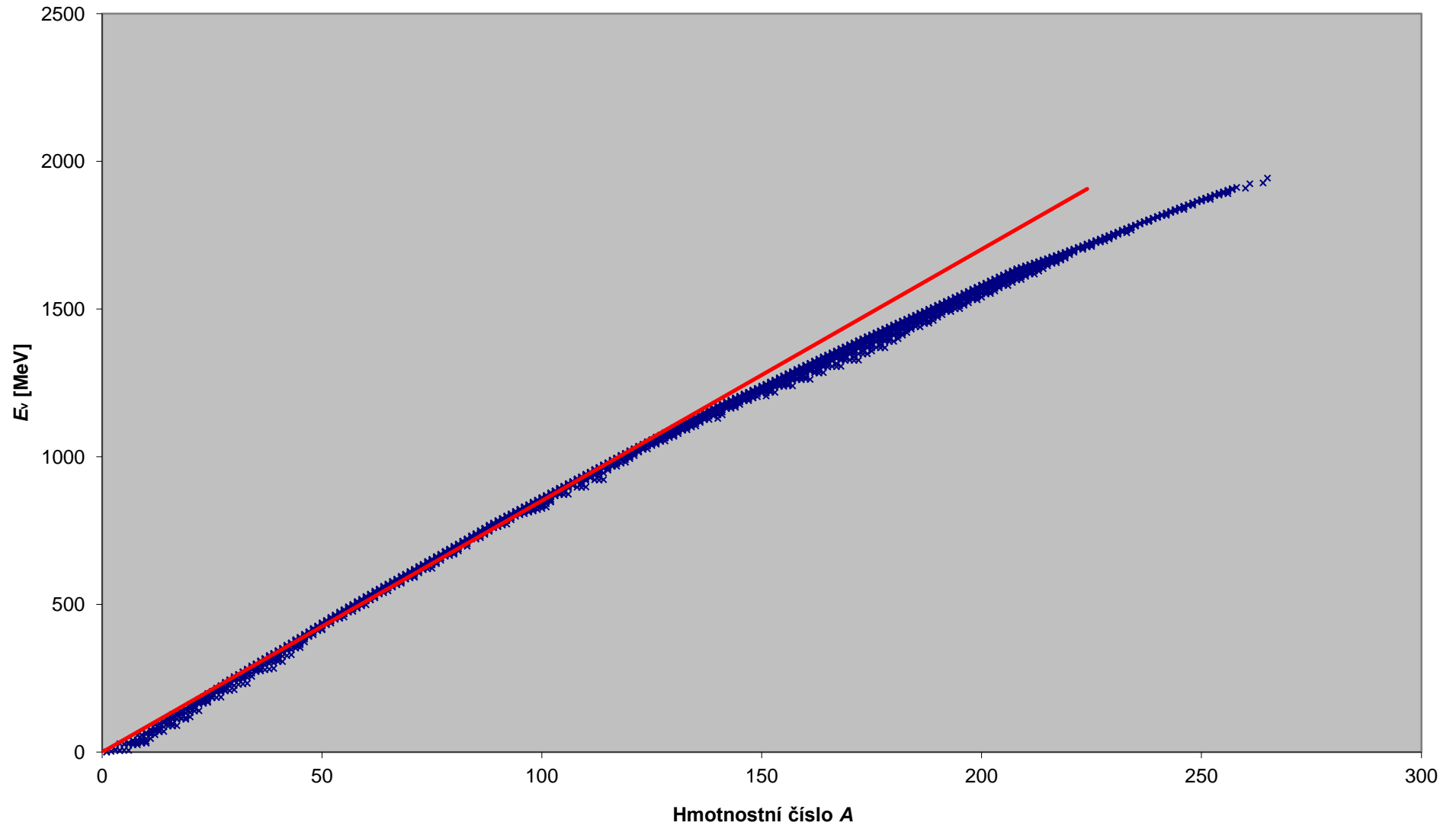
značka	protonové číslo Z	hmotnostní číslo A	relativní hmotnost A_r	hmotnost m [kg]	součet hmotnosti částic v atomu $Z m_p + (A-Z) m_n + Z m_e$ [kg]	hmotnostní schodek Δm [kg]	vazebná energie		vazebná energie připadající na 1 nukleon E_v / A [MeV]
							$E_v = \Delta m c^2$ [J]	[MeV]	
Rn	86	212	211.990704	3.520188E-25	3.549646E-25	2.945844E-27	2.647592E-10	1652.497	7.795
Fr	87	212	211.996202	3.520279E-25	3.549633E-25	2.935318E-27	2.638133E-10	1646.593	7.767
Ra	88	212	211.999795	3.520339E-25	3.549619E-25	2.927959E-27	2.631518E-10	1642.464	7.747
Ac	89	212	212.007814	3.520472E-25	3.549605E-25	2.913248E-27	2.618296E-10	1634.212	7.709
Th	90	212	212.012980	3.520558E-25	3.549591E-25	2.903274E-27	2.609332E-10	1628.617	7.682
Pa	91	212	212.023204	3.520728E-25	3.549577E-25	2.884902E-27	2.592821E-10	1618.312	7.634
Pb	82	213	212.996581	3.536891E-25	3.566452E-25	2.956050E-27	2.656765E-10	1658.223	7.785
Bi	83	213	212.994385	3.536855E-25	3.566438E-25	2.958304E-27	2.658791E-10	1659.487	7.791
Po	84	213	212.992857	3.536829E-25	3.566424E-25	2.959445E-27	2.659817E-10	1660.127	7.794
At	85	213	212.992937	3.536830E-25	3.566410E-25	2.957919E-27	2.658445E-10	1659.271	7.790
Rn	86	213	212.993883	3.536846E-25	3.566396E-25	2.954953E-27	2.655779E-10	1657.607	7.782
Fr	87	213	212.996189	3.536884E-25	3.566382E-25	2.949729E-27	2.651084E-10	1654.677	7.768
Ra	88	213	213.000384	3.536954E-25	3.566368E-25	2.941368E-27	2.643570E-10	1649.987	7.746
Ac	89	213	213.006608	3.537057E-25	3.566354E-25	2.929639E-27	2.633028E-10	1643.407	7.716
Th	90	213	213.013010	3.537164E-25	3.566340E-25	2.917613E-27	2.622220E-10	1636.661	7.684
Pa	91	213	213.021109	3.537298E-25	3.566326E-25	2.902769E-27	2.608879E-10	1628.334	7.645
Pb	82	214	213.999805	3.553550E-25	3.583201E-25	2.965085E-27	2.664886E-10	1663.291	7.772
Bi	83	214	213.998712	3.553532E-25	3.583187E-25	2.965507E-27	2.665265E-10	1663.528	7.773
Po	84	214	213.995201	3.553473E-25	3.583173E-25	2.969941E-27	2.669250E-10	1666.015	7.785
At	85	214	213.996372	3.553493E-25	3.583159E-25	2.966603E-27	2.666250E-10	1664.142	7.776
Rn	86	214	213.995363	3.553476E-25	3.583145E-25	2.966884E-27	2.666503E-10	1664.300	7.777
Fr	87	214	213.998971	3.553536E-25	3.583131E-25	2.959497E-27	2.659864E-10	1660.156	7.758
Ra	88	214	214.000108	3.553555E-25	3.583117E-25	2.956215E-27	2.656914E-10	1658.315	7.749
Ac	89	214	214.006902	3.553668E-25	3.583103E-25	2.943539E-27	2.645521E-10	1651.204	7.716
Th	90	214	214.011500	3.553744E-25	3.583089E-25	2.934509E-27	2.637405E-10	1646.139	7.692
Pa	91	214	214.020918	3.553901E-25	3.583075E-25	2.917475E-27	2.622095E-10	1636.583	7.648
Bi	83	215	215.001770	3.570188E-25	3.599936E-25	2.974817E-27	2.673632E-10	1668.750	7.762
Po	84	215	214.999420	3.570149E-25	3.599922E-25	2.977324E-27	2.675886E-10	1670.157	7.768
At	85	215	214.998653	3.570136E-25	3.599908E-25	2.977204E-27	2.675778E-10	1670.089	7.768
Rn	86	215	214.998745	3.570138E-25	3.599894E-25	2.975655E-27	2.674385E-10	1669.220	7.764
Fr	87	215	215.000341	3.570164E-25	3.599880E-25	2.971610E-27	2.670750E-10	1666.951	7.753
Ra	88	215	215.002720	3.570204E-25	3.599866E-25	2.966266E-27	2.665947E-10	1663.953	7.739
Ac	89	215	215.006454	3.570266E-25	3.599852E-25	2.958672E-27	2.659121E-10	1659.693	7.720
Th	90	215	215.011730	3.570353E-25	3.599838E-25	2.948515E-27	2.649993E-10	1653.996	7.693
Pa	91	215	215.019186	3.570477E-25	3.599825E-25	2.934740E-27	2.637613E-10	1646.268	7.657
Bi	83	216	216.006306	3.586869E-25	3.616685E-25	2.981673E-27	2.679794E-10	1672.596	7.744
Po	84	216	216.001915	3.586796E-25	3.616671E-25	2.987570E-27	2.685094E-10	1675.904	7.759
At	85	216	216.002423	3.586804E-25	3.616657E-25	2.985331E-27	2.683082E-10	1674.648	7.753
Rn	86	216	216.000274	3.586768E-25	3.616644E-25	2.987505E-27	2.685035E-10	1675.867	7.759
Fr	87	216	216.003198	3.586817E-25	3.616630E-25	2.981255E-27	2.679419E-10	1672.362	7.742
Ra	88	216	216.003533	3.586823E-25	3.616616E-25	2.979304E-27	2.677665E-10	1671.267	7.737
Ac	89	216	216.008720	3.586909E-25	3.616602E-25	2.969296E-27	2.668671E-10	1665.653	7.711
Th	90	216	216.011062	3.586948E-25	3.616588E-25	2.964013E-27	2.663922E-10	1662.689	7.698
Pa	91	216	216.019110	3.587081E-25	3.616574E-25	2.949255E-27	2.650658E-10	1654.411	7.659
Po	84	217	217.006335	3.603475E-25	3.633421E-25	2.994619E-27	2.691429E-10	1679.858	7.741
At	85	217	217.004719	3.603448E-25	3.633407E-25	2.995908E-27	2.692588E-10	1680.581	7.745
Rn	86	217	217.003928	3.603435E-25	3.633393E-25	2.995827E-27	2.692515E-10	1680.536	7.744
Fr	87	217	217.004632	3.603446E-25	3.633379E-25	2.993263E-27	2.690210E-10	1679.097	7.738
Ra	88	217	217.006320	3.603474E-25	3.633365E-25	2.989064E-27	2.686437E-10	1676.742	7.727
Ac	89	217	217.009347	3.603525E-25	3.633351E-25	2.982644E-27	2.680667E-10	1673.141	7.710
Th	90	217	217.013114	3.603587E-25	3.633337E-25	2.974993E-27	2.673791E-10	1668.849	7.691
Pa	91	217	217.018324	3.603674E-25	3.633323E-25	2.964948E-27	2.664762E-10	1663.214	7.665
U	92	217	217.024369	3.603774E-25	3.633309E-25	2.953516E-27	2.654488E-10	1656.801	7.635
Po	84	218	218.008973	3.620124E-25	3.650170E-25	3.004626E-27	2.700424E-10	1685.472	7.732
At	85	218	218.008694	3.620119E-25	3.650156E-25	3.003695E-27	2.699586E-10	1684.949	7.729
Rn	86	218	218.005601	3.620068E-25	3.650142E-25	3.007436E-27	2.702949E-10	1687.048	7.739
Fr	87	218	218.007578	3.620101E-25	3.650128E-25	3.002759E-27	2.698745E-10	1684.424	7.727
Ra	88	218	218.007140	3.620093E-25	3.650114E-25	3.002091E-27	2.698145E-10	1684.050	7.725
Ac	89	218	218.011641	3.620168E-25	3.650100E-25	2.993222E-27	2.690174E-10	1679.075	7.702
Th	90	218	218.013284	3.620195E-25	3.650086E-25	2.989099E-27	2.686468E-10	1676.762	7.692
Pa	91	218	218.020042	3.620308E-25	3.650072E-25	2.976484E-27	2.675130E-10	1669.685	7.659
U	92	218	218.023536	3.620366E-25	3.650058E-25	2.969288E-27	2.668663E-10	1665.648	7.641
At	85	219	219.011162	3.636765E-25	3.666905E-25	3.013986E-27	2.708835E-10	1690.722	7.720
Rn	86	219	219.009480	3.636738E-25	3.666891E-25	3.015383E-27	2.710091E-10	1691.506	7.724
Fr	87	219	219.009252	3.636734E-25	3.666877E-25	3.014367E-27	2.709178E-10	1690.936	7.721
Ra	88	219	219.010085	3.636748E-25	3.666863E-25	3.011590E-27	2.706682E-10	1689.378	7.714
Ac	89	219	219.012420	3.636786E-25	3.666850E-25	3.006317E-27	2.701943E-10	1686.420	7.701
Th	90	219	219.015537	3.636838E-25	3.666836E-25	2.999748E-27	2.696039E-10	1682.735	7.684
Pa	91	219	219.019883	3.636910E-25	3.666822E-25	2.991136E-27	2.688299E-10	1677.904	7.662
U	92	219	219.024919	3.636994E-25	3.666808E-25	2.981379E-27	2.679529E-10	1672.431	7.637
At	85	220	220.015408	3.653441E-25	3.683655E-25	3.021324E-27	2.715430E-10	1694.838	7.704
Rn	86	220	220.011394	3.653375E-25	3.683641E-25	3.026594E-27	2.720167E-10	1697.795	7.717
Fr	87	220	220.012327	3.653390E-25	3.683627E-25	3.023649E-27	2.717520E-10	1696.143	7.710
Ra	88	220	220.011028	3.653369E-25	3.683613E-25	3.024412E-27	2.718206E-10	1696.571	7.712
Ac	89	220	220.014763	3.653431E-25	3.683599E-25	3.016816E-27	2.711379E-10	1692.310	7.692
Th	90	220	220.015748	3.653447E-25	3.683585E-25	3.013786E-27	2.708656E-10	1690.610	7.685
Pa	91	220	220.021875	3.653549E-25	3.683571E-25	3.002216E-27	2.698257E-10	1684.120	7.655
Rn	86	221	221.015537	3.670049E-25	3.700390E-25	3.034103E-27	2.726916E-10	1702.007	7.701
Fr	87	221	221.014255	3.670028E-25	3.700376E-25	3.034837E-27	2.727576E-10	1702.419	7.703
Ra	88	221	221.013917	3.670022E-25	3.700362E-25	3.034003E-27	2.726826E-10	1701.951	7.701
Ac	89	221	221.015591	3.670050E-25	3.700348E-25	3.029829E-27	2.723074E-10	1699.609	7.691
Th	90	221	221.018184	3.670093E-25	3.700334E-25	3.024129E-27	2.717952E-10	1696.412	7.676
Pa	91	221	221.021878	3.670154E-25	3.700320E-25	3.016600E-27	2.711185E-10	1692.189	7.657
Rn	86	222	222.017578	3.686688E-25	3.717139E-25	3.045102E-27	2.736802E-10	1708.177	7.694
Fr	87	222	222.017552	3.686688E-25	3.717125E-25	3.043751E-27	2.735587E-10	1707.419	7.691
Ra	88	222	222.015375	3.686652E-25	3.717111E-25	3.045972E-27	2.737583E-10	1708.665	7.697
Ac	89	222	222.017844	3.686693E-25	3.717097E-25	3.040477E-27	2.732644E-10	1705.582	7.683
Th	90	222	222.018468	3.686703E-25	3.717083E-25	3.038045E-27	2.730459E-10	1704.219	7.677
Fr	87	223	223.019736	3.703329E-25	3.733875E-25	3.054513E-27	2.745259E-10	1713.456	7.684
Ra	88	223	223.018502	3.703309E-25	3.733861E-25	3.055166E-27	2.745847E-10	1713.823	7.685
Ac	89	223	223.019137	3.703319E-25	3.733847E-25	3.052717E-27	2.743645E-10	1712.449	7.679
Th	90	223	223.020811	3.703347E-25	3.73383				

značka	protonové číslo Z	hmotnostní číslo A	relativní hmotnost A_r	hmotnost m [kg]	součet hmotnosti částic v atomu $Z m_p + (A - Z) m_n + Z m_e$ [kg]	hmotnostní schodek Δm [kg]	vazebná energie		vazebná energie připadající na 1 nukleon E_v / A [MeV]
							$E_v = \Delta m c^2$ [J]	[MeV]	
Ac	89	226	226.026098	3.753251E-25	3.784094E-25	3.084324E-27	2.772052E-10	1730.179	7.656
Th	90	226	226.024903	3.753231E-25	3.784080E-25	3.084914E-27	2.772582E-10	1730.510	7.657
Pa	91	226	226.027948	3.753282E-25	3.784067E-25	3.078463E-27	2.766785E-10	1726.891	7.641
U	92	226	226.029339	3.753305E-25	3.784053E-25	3.074759E-27	2.763455E-10	1724.813	7.632
Fr	87	227	227.031836	3.769952E-25	3.800872E-25	3.091974E-27	2.778927E-10	1734.470	7.641
Ra	88	227	227.029178	3.769908E-25	3.800858E-25	3.094993E-27	2.781641E-10	1736.164	7.648
Ac	89	227	227.027752	3.769884E-25	3.800844E-25	3.095966E-27	2.782515E-10	1736.709	7.651
Th	90	227	227.027704	3.769883E-25	3.800830E-25	3.094651E-27	2.781333E-10	1735.972	7.647
Pa	91	227	227.028805	3.769902E-25	3.800816E-25	3.091428E-27	2.778437E-10	1734.164	7.639
U	92	227	227.031156	3.769941E-25	3.800802E-25	3.086129E-27	2.773674E-10	1731.191	7.626
Np	93	227	227.034957	3.770004E-25	3.800788E-25	3.078423E-27	2.766749E-10	1726.869	7.607
Ra	88	228	228.031070	3.786545E-25	3.817607E-25	3.106239E-27	2.791748E-10	1742.472	7.642
Ac	89	228	228.031021	3.786544E-25	3.817593E-25	3.104926E-27	2.790568E-10	1741.736	7.639
Th	90	228	228.028741	3.786506E-25	3.817579E-25	3.107317E-27	2.792717E-10	1743.077	7.645
Pa	91	228	228.031051	3.786544E-25	3.817565E-25	3.102086E-27	2.788016E-10	1740.143	7.632
U	92	228	228.031374	3.786550E-25	3.817551E-25	3.100156E-27	2.786281E-10	1739.060	7.627
Pu	94	228	228.038742	3.786672E-25	3.817523E-25	3.085131E-27	2.772778E-10	1730.632	7.590
Fr	87	229	229.038450	3.803272E-25	3.834370E-25	3.109767E-27	2.794919E-10	1744.452	7.618
Ra	88	229	229.034958	3.803214E-25	3.834356E-25	3.114172E-27	2.798878E-10	1746.923	7.628
Ac	89	229	229.033015	3.803182E-25	3.834342E-25	3.116003E-27	2.800524E-10	1747.950	7.633
Th	90	229	229.031762	3.803161E-25	3.834328E-25	3.116689E-27	2.801140E-10	1748.334	7.635
Pa	91	229	229.032097	3.803167E-25	3.834314E-25	3.114739E-27	2.799388E-10	1747.240	7.630
U	92	229	229.033506	3.803190E-25	3.834300E-25	3.111004E-27	2.796031E-10	1745.145	7.621
Np	93	229	229.036264	3.803236E-25	3.834286E-25	3.105030E-27	2.790662E-10	1741.794	7.606
Pu	94	229	229.040150	3.803301E-25	3.834273E-25	3.097182E-27	2.783608E-10	1737.392	7.587
Ra	88	230	230.037056	3.819855E-25	3.851105E-25	3.125075E-27	2.808678E-10	1753.039	7.622
Ac	89	230	230.036294	3.819842E-25	3.851092E-25	3.124946E-27	2.808562E-10	1752.967	7.622
Th	90	230	230.033134	3.819790E-25	3.851078E-25	3.128800E-27	2.812025E-10	1755.128	7.631
Pa	91	230	230.034541	3.819813E-25	3.851064E-25	3.125069E-27	2.808672E-10	1753.035	7.622
U	92	230	230.033940	3.819803E-25	3.851050E-25	3.124672E-27	2.808315E-10	1752.813	7.621
Np	93	230	230.037828	3.819868E-25	3.851036E-25	3.116822E-27	2.801260E-10	1748.409	7.602
Pu	94	230	230.039650	3.819898E-25	3.851022E-25	3.112401E-27	2.797287E-10	1745.929	7.591
Ac	89	231	231.038559	3.836448E-25	3.867841E-25	3.135574E-27	2.818114E-10	1758.928	7.614
Th	90	231	231.036304	3.836448E-25	3.867827E-25	3.137923E-27	2.820225E-10	1760.246	7.620
Pa	91	231	231.035884	3.836441E-25	3.867813E-25	3.137227E-27	2.819599E-10	1759.855	7.618
U	92	231	231.036294	3.836447E-25	3.867799E-25	3.135152E-27	2.817734E-10	1758.691	7.613
Np	93	231	231.038245	3.836480E-25	3.867785E-25	3.130517E-27	2.813568E-10	1756.091	7.602
Pu	94	231	231.041101	3.836527E-25	3.867771E-25	3.124380E-27	2.808052E-10	1752.649	7.587
Ac	89	232	232.042027	3.853148E-25	3.884590E-25	3.144203E-27	2.825869E-10	1763.769	7.602
Th	90	232	232.038055	3.853082E-25	3.884576E-25	3.149404E-27	2.830543E-10	1766.686	7.615
Pa	91	232	232.038592	3.853091E-25	3.884562E-25	3.147119E-27	2.828490E-10	1765.404	7.610
U	92	232	232.037156	3.853067E-25	3.884548E-25	3.148108E-27	2.829378E-10	1765.959	7.612
Pu	94	232	232.041187	3.853134E-25	3.884520E-25	3.138625E-27	2.820856E-10	1760.640	7.589
Th	90	233	233.041582	3.869746E-25	3.901325E-25	3.157937E-27	2.838212E-10	1771.473	7.603
Pa	91	233	233.040247	3.869724E-25	3.901311E-25	3.158758E-27	2.838950E-10	1771.934	7.605
U	92	233	233.039635	3.869714E-25	3.901298E-25	3.158380E-27	2.838610E-10	1771.721	7.604
Np	93	233	233.040741	3.869732E-25	3.901284E-25	3.155150E-27	2.835707E-10	1769.909	7.596
Pu	94	233	233.042997	3.869770E-25	3.901270E-25	3.150008E-27	2.831086E-10	1767.025	7.584
Cm	96	233	233.050771	3.869899E-25	3.901242E-25	3.134310E-27	2.816977E-10	1758.219	7.546
Th	90	234	234.043601	3.886385E-25	3.918075E-25	3.168972E-27	2.848130E-10	1777.663	7.597
Pa	91	234	234.043308	3.886380E-25	3.918061E-25	3.168064E-27	2.847314E-10	1777.154	7.595
U	92	234	234.040952	3.886341E-25	3.918047E-25	3.170582E-27	2.849577E-10	1778.566	7.601
Np	93	234	234.042895	3.886373E-25	3.918033E-25	3.165961E-27	2.845424E-10	1775.974	7.590
Pu	94	234	234.043317	3.886380E-25	3.918019E-25	3.163865E-27	2.843540E-10	1774.798	7.585
Cm	96	234	234.050160	3.886494E-25	3.917991E-25	3.149713E-27	2.830821E-10	1766.860	7.551
Th	90	235	235.047510	3.903055E-25	3.934824E-25	3.176870E-27	2.855228E-10	1782.093	7.583
Pa	91	235	235.045444	3.903021E-25	3.934810E-25	3.178906E-27	2.857059E-10	1783.236	7.588
U	92	235	235.043930	3.902996E-25	3.934796E-25	3.180025E-27	2.858064E-10	1783.863	7.591
Np	93	235	235.044063	3.902998E-25	3.934782E-25	3.178409E-27	2.856612E-10	1782.957	7.587
Pu	94	235	235.045286	3.903018E-25	3.934768E-25	3.174984E-27	2.853533E-10	1781.036	7.579
Pa	91	236	236.048681	3.919680E-25	3.951559E-25	3.187918E-27	2.865158E-10	1788.291	7.578
U	92	236	236.045568	3.919628E-25	3.951545E-25	3.191694E-27	2.868551E-10	1790.409	7.586
Np	93	236	236.046570	3.919645E-25	3.951531E-25	3.188636E-27	2.865803E-10	1788.694	7.579
Pu	94	236	236.046058	3.919637E-25	3.951517E-25	3.188091E-27	2.865313E-10	1788.388	7.578
Pa	91	237	237.051146	3.936326E-25	3.968309E-25	3.198215E-27	2.874412E-10	1794.067	7.570
U	92	237	237.048730	3.936286E-25	3.968295E-25	3.200831E-27	2.876763E-10	1795.535	7.576
Np	93	237	237.048173	3.936277E-25	3.968281E-25	3.200361E-27	2.876341E-10	1795.271	7.575
Pu	94	237	237.048410	3.936281E-25	3.968267E-25	3.198574E-27	2.874735E-10	1794.269	7.571
Pa	91	238	238.054503	3.952988E-25	3.985058E-25	3.207029E-27	2.882334E-10	1799.011	7.559
U	92	238	238.050788	3.952926E-25	3.985044E-25	3.211802E-27	2.886624E-10	1801.689	7.570
Np	93	238	238.050946	3.952928E-25	3.985030E-25	3.210145E-27	2.885134E-10	1800.759	7.566
Pu	94	238	238.049560	3.952905E-25	3.985016E-25	3.211052E-27	2.885950E-10	1801.268	7.568
Am	95	238	238.051984	3.952946E-25	3.985002E-25	3.205632E-27	2.881078E-10	1798.228	7.556
Cm	96	238	238.053029	3.952963E-25	3.984988E-25	3.202503E-27	2.878266E-10	1796.473	7.548
U	92	239	239.054293	3.969589E-25	4.001793E-25	3.220370E-27	2.894324E-10	1806.495	7.559
Np	93	239	239.052939	3.969567E-25	4.001779E-25	3.221224E-27	2.895092E-10	1806.974	7.561
Pu	94	239	239.052163	3.969554E-25	4.001765E-25	3.221118E-27	2.894996E-10	1806.915	7.560
Am	95	239	239.053024	3.969568E-25	4.001751E-25	3.218293E-27	2.892458E-10	1805.330	7.554
U	92	240	240.056592	3.986233E-25	4.018542E-25	3.230941E-27	2.903825E-10	1812.425	7.552
Np	93	240	240.056162	3.986226E-25	4.018528E-25	3.230261E-27	2.903213E-10	1812.043	7.550
Pu	94	240	240.053814	3.986187E-25	4.018515E-25	3.232766E-27	2.905465E-10	1813.449	7.556
Am	95	240	240.055300	3.986212E-25	4.018501E-25	3.228903E-27	2.901993E-10	1811.282	7.547
Cm	96	240	240.055530	3.986215E-25	4.018487E-25	3.227127E-27	2.900397E-10	1810.286	7.543
Np	93	241	241.058252	4.002866E-25	4.035278E-25	3.241178E-27	2.913026E-10	1818.168	7.544
Pu	94	241	241.056851	4.002843E-25	4.035264E-25	3.242110E-27	2.913863E-10	1818.690	7.546
Am	95	241	241.056829	4.002842E-25	4.035250E-25	3.240752E-27	2.912643E-10	1817.929	7.543
Cm	96	241	241.057653	4.002856E-25	4.035236E-25	3.237990E-27	2.910160E-10	1816.379	7.537
Np	93	242	242.061641	4.019528E-25	4.052027E-25	3.249939E-27	2.920900E-10	1823.082	7.533
Pu	94	242	242.058743	4.019479E-25	4.052013E-25	3.253358E-27	2.923972E-10	1825.000	7.541
Am	95	242	242.059549	4.019493E-25	4.051999E-25	3.250624E-27	2.921515E-10	1823.466	7.535
Cm	96	242	242.058836	4.019481E-25	4.051985E-25	3.250414E-27	2.921326E-10	1823.349	7.534
Cf	98	242	242.063702	4.019562E-25	4.051957				

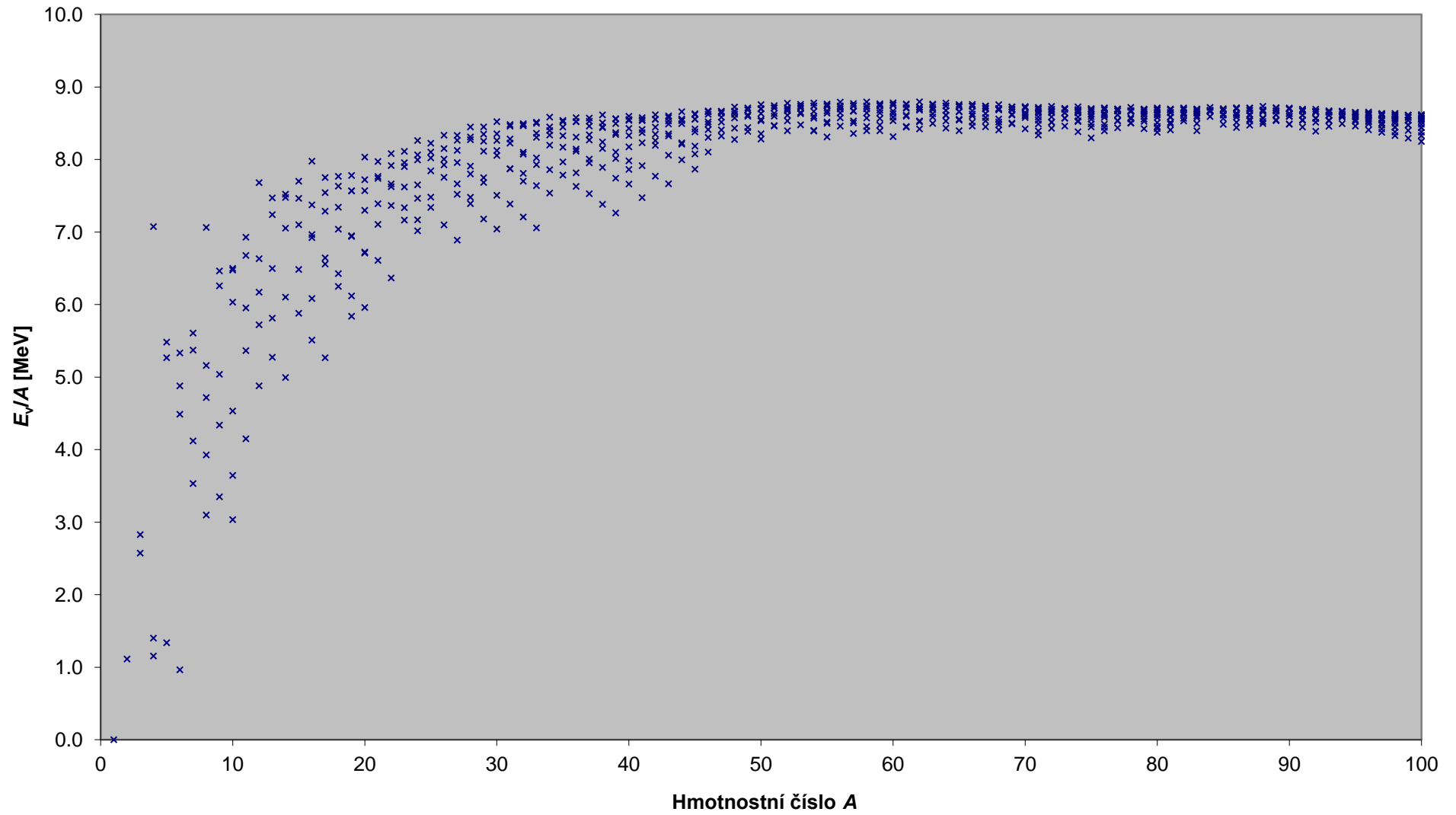
značka	protonové číslo Z	hmotnostní číslo A	relativní hmotnost A_r	hmotnost m [kg]	součet hmotností částic v atomu $Z m_p + (A - Z) m_n + Z m_e$ [kg]	hmotnostní schodek Δm [kg]	vazebná energie $E_v = \Delta m c^2$		vazebná energie připadající na 1 nukleon E_v / A [MeV]
							[J]	[MeV]	
Bk	97	246	246.068673	4.086066E-25	4.118968E-25	3.290238E-27	2.957118E-10	1845.688	7.503
Cf	98	246	246.068805	4.086068E-25	4.118954E-25	3.288624E-27	2.955667E-10	1844.783	7.499
Fm	100	246	246.075299	4.086176E-25	4.118926E-25	3.275051E-27	2.943469E-10	1837.169	7.468
Cm	96	247	247.070354	4.102699E-25	4.135732E-25	3.303230E-27	2.968795E-10	1852.976	7.502
Bk	97	247	247.070307	4.102698E-25	4.135718E-25	3.301913E-27	2.967611E-10	1852.237	7.499
Cf	98	247	247.071001	4.102710E-25	4.135704E-25	3.299367E-27	2.965323E-10	1850.809	7.493
Cm	96	248	248.072349	4.119338E-25	4.152481E-25	3.314306E-27	2.978750E-10	1859.189	7.497
Cf	98	248	248.072185	4.119335E-25	4.152453E-25	3.311788E-27	2.976487E-10	1857.777	7.491
Fm	100	248	248.077195	4.119418E-25	4.152425E-25	3.300680E-27	2.966503E-10	1851.546	7.466
Cm	96	249	249.075953	4.136003E-25	4.169230E-25	3.322708E-27	2.986301E-10	1863.903	7.486
Bk	97	249	249.074987	4.135987E-25	4.169216E-25	3.322919E-27	2.986491E-10	1864.021	7.486
Cf	98	249	249.074854	4.135985E-25	4.169202E-25	3.321745E-27	2.985436E-10	1863.363	7.483
Cm	96	250	250.078357	4.152648E-25	4.185979E-25	3.333106E-27	2.995646E-10	1869.735	7.479
Bk	97	250	250.078317	4.152648E-25	4.185965E-25	3.331778E-27	2.994453E-10	1868.991	7.476
Cf	98	250	250.076406	4.152616E-25	4.185951E-25	3.333556E-27	2.996051E-10	1869.988	7.480
Fm	100	250	250.079521	4.152668E-25	4.185924E-25	3.325594E-27	2.988895E-10	1865.521	7.462
Cm	96	251	251.082285	4.169319E-25	4.202729E-25	3.340972E-27	3.002716E-10	1874.148	7.467
Bk	97	251	251.080760	4.169294E-25	4.202715E-25	3.342109E-27	3.003738E-10	1874.786	7.469
Cf	98	251	251.079587	4.169274E-25	4.202701E-25	3.342663E-27	3.004235E-10	1875.096	7.471
Es	99	251	251.079992	4.169281E-25	4.202687E-25	3.340595E-27	3.002377E-10	1873.936	7.466
Fm	100	251	251.081575	4.169307E-25	4.202673E-25	3.336572E-27	2.998761E-10	1871.680	7.457
Cf	98	252	252.081626	4.185913E-25	4.219450E-25	3.353665E-27	3.014124E-10	1881.268	7.465
Es	99	252	252.082979	4.185936E-25	4.219436E-25	3.350024E-27	3.010852E-10	1879.226	7.457
Fm	100	252	252.082467	4.185927E-25	4.219422E-25	3.349479E-27	3.010362E-10	1878.920	7.456
No	102	252	252.088977	4.186035E-25	4.219394E-25	3.335880E-27	2.998140E-10	1871.292	7.426
Cf	98	253	253.085133	4.202577E-25	4.236199E-25	3.362229E-27	3.021821E-10	1886.073	7.455
Es	99	253	253.084825	4.202572E-25	4.236185E-25	3.361347E-27	3.021028E-10	1885.578	7.453
Fm	100	253	253.085185	4.202578E-25	4.236171E-25	3.359354E-27	3.019237E-10	1884.459	7.448
Cf	98	254	254.087323	4.219219E-25	4.252949E-25	3.372982E-27	3.031485E-10	1892.104	7.449
Es	99	254	254.088022	4.219230E-25	4.252935E-25	3.370426E-27	3.029188E-10	1890.671	7.444
Fm	100	254	254.086854	4.219211E-25	4.252921E-25	3.370971E-27	3.029677E-10	1890.976	7.445
No	102	254	254.090955	4.219279E-25	4.252893E-25	3.361372E-27	3.021050E-10	1885.591	7.424
Es	99	255	255.090273	4.235873E-25	4.269684E-25	3.381077E-27	3.038760E-10	1896.645	7.438
Fm	100	255	255.089962	4.235868E-25	4.269670E-25	3.380198E-27	3.037971E-10	1896.152	7.436
Md	101	255	255.091083	4.235887E-25	4.269656E-25	3.376943E-27	3.035045E-10	1894.326	7.429
No	102	255	255.093241	4.235922E-25	4.269642E-25	3.371964E-27	3.030570E-10	1891.533	7.418
Fm	100	256	256.091773	4.252503E-25	4.286419E-25	3.391580E-27	3.048200E-10	1902.537	7.432
Md	101	256	256.094059	4.252541E-25	4.286405E-25	3.386389E-27	3.043535E-10	1899.625	7.420
No	102	256	256.094283	4.252545E-25	4.286391E-25	3.384623E-27	3.041948E-10	1898.634	7.417
Rf	104	256	256.101166	4.252659E-25	4.286363E-25	3.370403E-27	3.029168E-10	1890.658	7.385
Fm	100	257	257.095105	4.269164E-25	4.303168E-25	3.400436E-27	3.056159E-10	1907.505	7.422
Md	101	257	257.095541	4.269171E-25	4.303155E-25	3.398316E-27	3.054254E-10	1906.316	7.418
No	102	257	257.096877	4.269194E-25	4.303141E-25	3.394703E-27	3.051007E-10	1904.289	7.410
Md	101	258	258.098431	4.285825E-25	4.319904E-25	3.407906E-27	3.062873E-10	1911.695	7.410
Sg	106	260	260.114422	4.319301E-25	4.353333E-25	3.403156E-27	3.058604E-10	1909.031	7.342
Rf	104	261	261.108767	4.335813E-25	4.370110E-25	3.429725E-27	3.082483E-10	1923.935	7.371
Hs	108	264	264.128395	4.385955E-25	4.420302E-25	3.434718E-27	3.086971E-10	1926.736	7.298
Sg	106	265	265.121115	4.402439E-25	4.437079E-25	3.463985E-27	3.113274E-10	1943.153	7.333



Graf 1: Závislost vazbové energie na hmotnostním čísle



Graf 2: Závislost vazbové energie připadající na 1 nukleon na hmotnostním čísle



značka	protonové číslo Z	hmotnostní číslo A	stabilní nuklid	relativní hmotnost A_r	hmotnost m [kg]	součet hmotnosti částic v atomu $Z m_p + (A-Z) m_n + Z m_e$ [kg]
H	1	1	x	1.007825	1.673533E-27	1.673533E-27
H	1	2	x	2.014102	3.344494E-27	3.348460E-27
He	2	3	x	3.016029	5.008234E-27	5.021993E-27
He	2	4	x	4.002603	6.646478E-27	6.696920E-27
Li	3	6	x	6.015123	9.988345E-27	1.004538E-26
Li	3	7	x	7.016005	1.165035E-26	1.172031E-26
Be	4	9	x	9.012182	1.496508E-26	1.506877E-26
B	5	10	x	10.012937	1.662687E-26	1.674230E-26
B	5	11	x	11.009305	1.828138E-26	1.841723E-26
C	6	12	x	12.000000	1.992647E-26	2.009076E-26
C	6	13	x	13.003355	2.159258E-26	2.176569E-26
N	7	14	x	14.003074	2.325265E-26	2.343922E-26
N	7	15	x	15.000109	2.490826E-26	2.511415E-26
O	8	16	x	15.994915	2.656018E-26	2.678768E-26
O	8	17	x	16.999132	2.822772E-26	2.846261E-26
O	8	18	x	17.999161	2.988831E-26	3.013753E-26
F	9	19	x	18.998403	3.154759E-26	3.181107E-26
Ne	10	20	x	19.992440	3.319822E-26	3.348460E-26
Ne	10	21	x	20.993847	3.486110E-26	3.515953E-26
Ne	10	22	x	21.991385	3.651755E-26	3.683445E-26
Na	11	23	x	22.989769	3.817541E-26	3.850799E-26
Mg	12	24	x	23.985042	3.982809E-26	4.018152E-26
Mg	12	25	x	24.985837	4.148995E-26	4.185645E-26
Mg	12	26	x	25.982593	4.314511E-26	4.353137E-26
Al	13	27	x	26.981539	4.480389E-26	4.520491E-26
Si	14	28	x	27.976927	4.645677E-26	4.687844E-26
Si	14	29	x	28.976495	4.811660E-26	4.855337E-26
Si	14	30	x	29.973770	4.977261E-26	5.022829E-26
n	0	1		1.008665	1.674927E-27	1.674927E-27
H	1	3		3.016049	5.008267E-27	5.023387E-27
H	1	4		4.027806	6.688329E-27	6.698314E-27
Li	3	4		4.027186	6.687298E-27	6.695525E-27
H	1	5		5.035311	8.361330E-27	8.373242E-27
He	2	5		5.012224	8.322992E-27	8.371847E-27
Li	3	5		5.012538	8.323514E-27	8.370453E-27
H	1	6		6.044943	1.003786E-26	1.004817E-26
He	2	6		6.018889	9.994599E-27	1.004677E-26
Be	4	6		6.019726	9.995989E-27	1.004399E-26
He	2	7		7.028021	1.167030E-26	1.172170E-26
Be	4	7		7.016930	1.165188E-26	1.171891E-26
B	5	7		7.029918	1.167345E-26	1.171752E-26
He	2	8		8.033922	1.334064E-26	1.339663E-26

Li	3	8	8.022487	1.332165E-26	1.339523E-26
Be	4	8	8.005305	1.329312E-26	1.339384E-26
B	5	8	8.024607	1.332517E-26	1.339245E-26
C	6	8	8.037675	1.334687E-26	1.339105E-26
He	2	9	9.043950	1.501783E-26	1.507156E-26
Li	3	9	9.026790	1.498933E-26	1.507016E-26
B	5	9	9.013329	1.496698E-26	1.506737E-26
C	6	9	9.031037	1.499639E-26	1.506598E-26
He	2	10	10.052399	1.669240E-26	1.674648E-26
Li	3	10	10.035481	1.666431E-26	1.674509E-26
Be	4	10	10.013534	1.662786E-26	1.674369E-26
C	6	10	10.016853	1.663337E-26	1.674091E-26
N	7	10	10.041654	1.667456E-26	1.673951E-26
Li	3	11	11.043798	1.833866E-26	1.842002E-26
Be	4	11	11.021658	1.830189E-26	1.841862E-26
C	6	11	11.011434	1.828491E-26	1.841583E-26
N	7	11	11.026091	1.830925E-26	1.841444E-26
Be	4	12	12.026921	1.997117E-26	2.009355E-26
B	5	12	12.014352	1.995030E-26	2.009215E-26
N	7	12	12.018613	1.995737E-26	2.008936E-26
O	8	12	12.034405	1.998360E-26	2.008797E-26
Be	4	13	13.035693	2.164627E-26	2.176848E-26
B	5	13	13.017780	2.161653E-26	2.176708E-26
N	7	13	13.005739	2.159653E-26	2.176429E-26
O	8	13	13.024812	2.162821E-26	2.176290E-26
Be	4	14	14.042893	2.331877E-26	2.344340E-26
B	5	14	14.025404	2.328973E-26	2.344201E-26
C	6	14	14.003242	2.325293E-26	2.344061E-26
O	8	14	14.008596	2.326182E-26	2.343782E-26
B	5	15	15.031103	2.495973E-26	2.511694E-26
C	6	15	15.010599	2.492568E-26	2.511554E-26
O	8	15	15.003066	2.491317E-26	2.511275E-26
F	9	15	15.018009	2.493799E-26	2.511136E-26
B	5	16	16.039809	2.663473E-26	2.679186E-26
C	6	16	16.014701	2.659303E-26	2.679047E-26
N	7	16	16.006102	2.657875E-26	2.678907E-26
F	9	16	16.011466	2.658766E-26	2.678628E-26
Ne	10	16	16.025761	2.661140E-26	2.678489E-26
B	5	17	17.046990	2.830719E-26	2.846679E-26
C	6	17	17.022586	2.826667E-26	2.846540E-26
N	7	17	17.008450	2.824319E-26	2.846400E-26
F	9	17	17.002095	2.823264E-26	2.846121E-26
Ne	10	17	17.017672	2.825850E-26	2.845982E-26
C	6	18	18.026759	2.993413E-26	3.014032E-26
N	7	18	18.014079	2.991308E-26	3.013893E-26
F	9	18	18.000938	2.989126E-26	3.013614E-26
Ne	10	18	18.005708	2.989918E-26	3.013474E-26

Na	11	18	18.025969	2.993282E-26	3.013335E-26
C	6	19	19.034805	3.160803E-26	3.181525E-26
N	7	19	19.017029	3.157852E-26	3.181386E-26
O	8	19	19.003580	3.155618E-26	3.181246E-26
Ne	10	19	19.001880	3.155336E-26	3.180967E-26
Na	11	19	19.013877	3.157328E-26	3.180828E-26
Mg	12	19	19.035470	3.160914E-26	3.180688E-26
C	6	20	20.040320	3.327773E-26	3.349018E-26
N	7	20	20.023366	3.324958E-26	3.348878E-26
O	8	20	20.004077	3.321755E-26	3.348739E-26
F	9	20	19.999981	3.321075E-26	3.348599E-26
Na	11	20	20.007351	3.322298E-26	3.348320E-26
Mg	12	20	20.018863	3.324210E-26	3.348181E-26
N	7	21	21.027108	3.491633E-26	3.516371E-26
O	8	21	21.008656	3.488569E-26	3.516232E-26
F	9	21	20.999949	3.487123E-26	3.516092E-26
Na	11	21	20.997655	3.486742E-26	3.515813E-26
Mg	12	21	21.011713	3.489077E-26	3.515674E-26
N	7	22	22.034395	3.658897E-26	3.683864E-26
O	8	22	22.009967	3.654841E-26	3.683724E-26
F	9	22	22.002999	3.653683E-26	3.683585E-26
Na	11	22	21.994436	3.652262E-26	3.683306E-26
Mg	12	22	21.999574	3.653115E-26	3.683166E-26
O	8	23	23.015688	3.821844E-26	3.851217E-26
F	9	23	23.003575	3.819833E-26	3.851078E-26
Ne	10	23	22.994467	3.818321E-26	3.850938E-26
Mg	12	23	22.994124	3.818264E-26	3.850659E-26
Al	13	23	23.007267	3.820446E-26	3.850520E-26
O	8	24	24.020473	3.988693E-26	4.018710E-26
F	9	24	24.008115	3.986641E-26	4.018570E-26
Ne	10	24	23.993611	3.984232E-26	4.018431E-26
Na	11	24	23.990963	3.983793E-26	4.018291E-26
Al	13	24	23.999939	3.985283E-26	4.018012E-26
Si	14	24	24.011546	3.987210E-26	4.017873E-26
F	9	25	25.012102	4.153357E-26	4.186063E-26
Ne	10	25	24.997737	4.150971E-26	4.185924E-26
Na	11	25	24.989954	4.149679E-26	4.185784E-26
Al	13	25	24.990428	4.149758E-26	4.185505E-26
Si	14	25	25.004106	4.152029E-26	4.185366E-26
F	9	26	26.019616	4.320658E-26	4.353556E-26
Ne	10	26	26.000461	4.317478E-26	4.353416E-26
Na	11	26	25.992633	4.316178E-26	4.353277E-26
Al	13	26	25.986892	4.315224E-26	4.352998E-26
Si	14	26	25.992330	4.316127E-26	4.352858E-26
F	9	27	27.026760	4.487899E-26	4.521048E-26
Ne	10	27	27.007590	4.484715E-26	4.520909E-26
Na	11	27	26.994077	4.482471E-26	4.520770E-26

Mg	12	27	26.984341	4.480855E-26	4.520630E-26
Si	14	27	26.986705	4.481247E-26	4.520351E-26
P	15	27	26.999230	4.483327E-26	4.520212E-26
Ne	10	28	28.012072	4.651513E-26	4.688402E-26
Na	11	28	27.998938	4.649332E-26	4.688262E-26
Mg	12	28	27.983877	4.646831E-26	4.688123E-26
Al	13	28	27.981910	4.646505E-26	4.687983E-26
P	15	28	27.992315	4.648233E-26	4.687704E-26
S	16	28	28.004373	4.650235E-26	4.687565E-26
Ne	10	29	29.019386	4.818782E-26	4.855894E-26
Na	11	29	29.002861	4.816038E-26	4.855755E-26
Mg	12	29	28.988600	4.813670E-26	4.855616E-26
Al	13	29	28.980445	4.812316E-26	4.855476E-26
P	15	29	28.981801	4.812541E-26	4.855197E-26
S	16	29	28.996608	4.814999E-26	4.855058E-26
Ne	10	30	30.024801	4.985735E-26	5.023387E-26
Na	11	30	30.008976	4.983107E-26	5.023248E-26
Mg	12	30	29.990434	4.980028E-26	5.023108E-26
Al	13	30	29.982960	4.978787E-26	5.022969E-26
P	15	30	29.978314	4.978016E-26	5.022690E-26
S	16	30	29.984903	4.979110E-26	5.022550E-26

hmotnostní schodek	vazebná energie		vazebná energie připadající na 1 nukleon
Δm	$E_v = \Delta mc^2$		E_v / A
[kg]	[J]	[MeV]	[MeV]
1.894523E-35	1.702712E-18	0.000	0.000
3.965659E-30	3.564157E-13	2.225	1.112
1.375869E-29	1.236569E-12	7.718	2.573
5.044161E-29	4.533466E-12	28.296	7.074
5.703464E-29	5.126018E-12	31.994	5.332
6.995887E-29	6.287590E-12	39.244	5.606
1.036882E-28	9.319034E-12	58.165	6.463
1.154287E-28	1.037421E-11	64.751	6.475
1.358475E-28	1.220936E-11	76.205	6.928
1.642932E-28	1.476594E-11	92.162	7.680
1.731108E-28	1.555843E-11	97.108	7.470
1.865710E-28	1.676816E-11	104.659	7.476
2.058830E-28	1.850385E-11	115.492	7.699
2.275021E-28	2.044687E-11	127.619	7.976
2.348879E-28	2.111067E-11	131.762	7.751
2.492277E-28	2.239947E-11	139.806	7.767
2.634798E-28	2.368038E-11	147.801	7.779
2.863755E-28	2.573814E-11	160.645	8.032
2.984283E-28	2.682140E-11	167.406	7.972
3.169043E-28	2.848194E-11	177.770	8.080
3.325812E-28	2.989091E-11	186.564	8.111
3.534253E-28	3.176429E-11	198.257	8.261
3.664933E-28	3.293877E-11	205.588	8.224
3.862685E-28	3.471608E-11	216.681	8.334
4.010130E-28	3.604125E-11	224.952	8.332
4.216653E-28	3.789739E-11	236.537	8.448
4.367708E-28	3.925500E-11	245.010	8.449
4.556834E-28	4.095478E-11	255.620	8.521
-8.717577E-36	-7.834967E-19	0.000	0.000
1.512018E-29	1.358934E-12	8.482	2.827
9.985401E-30	8.974431E-13	5.601	1.400
8.227110E-30	7.394158E-13	4.615	1.154
1.191137E-29	1.070541E-12	6.682	1.336
4.885503E-29	4.390871E-12	27.406	5.481
4.693870E-29	4.218640E-12	26.331	5.266
1.030697E-29	9.263441E-13	5.782	0.964
5.217513E-29	4.689267E-12	29.268	4.878
4.799568E-29	4.313636E-12	26.924	4.487
5.140035E-29	4.619633E-12	28.833	4.119
6.702778E-29	6.024156E-12	37.600	5.371
4.406595E-29	3.960450E-12	24.719	3.531
5.598947E-29	5.032083E-12	31.408	3.926

7.358233E-29	6.613250E-12	41.277	5.160
1.007195E-28	9.052218E-12	56.500	7.062
6.727294E-29	6.046190E-12	37.737	4.717
4.417873E-29	3.970586E-12	24.782	3.098
5.372536E-29	4.828595E-12	30.138	3.349
8.082687E-29	7.264357E-12	45.341	5.038
1.003897E-28	9.022573E-12	56.314	6.257
6.959036E-29	6.254470E-12	39.037	4.337
5.408463E-29	4.860885E-12	30.339	3.034
8.078230E-29	7.260351E-12	45.316	4.532
1.158322E-28	1.041048E-11	64.977	6.498
1.075310E-28	9.664402E-12	60.320	6.032
6.495424E-29	5.837796E-12	36.437	3.644
8.136092E-29	7.312355E-12	45.640	4.149
1.167306E-28	1.049122E-11	65.481	5.953
1.309189E-28	1.176640E-11	73.440	6.676
1.051852E-28	9.453570E-12	59.005	5.364
1.223796E-28	1.099893E-11	68.650	5.721
1.418557E-28	1.274935E-11	79.575	6.631
1.319907E-28	1.186273E-11	74.041	6.170
1.043733E-28	9.380606E-12	58.549	4.879
1.222013E-28	1.098291E-11	68.550	5.273
1.505516E-28	1.353090E-11	84.453	6.496
1.677579E-28	1.507732E-11	94.105	7.239
1.346908E-28	1.210540E-11	75.556	5.812
1.246340E-28	1.120154E-11	69.915	4.994
1.522804E-28	1.368628E-11	85.423	6.102
1.876866E-28	1.686843E-11	105.284	7.520
1.760064E-28	1.581867E-11	98.732	7.052
1.572054E-28	1.412891E-11	88.186	5.879
1.898580E-28	1.706359E-11	106.503	7.100
1.995787E-28	1.793724E-11	111.955	7.464
1.733698E-28	1.558170E-11	97.253	6.484
1.571375E-28	1.412281E-11	88.148	5.509
1.974349E-28	1.774457E-11	110.753	6.922
2.103203E-28	1.890264E-11	117.981	7.374
1.986238E-28	1.785141E-11	111.420	6.964
1.734908E-28	1.559258E-11	97.321	6.083
1.596014E-28	1.434426E-11	89.530	5.266
1.987302E-28	1.786098E-11	111.479	6.558
2.208087E-28	1.984530E-11	123.865	7.286
2.285722E-28	2.054305E-11	128.220	7.542
2.013126E-28	1.809307E-11	112.928	6.643
2.061888E-28	1.853133E-11	115.663	6.426
2.258505E-28	2.029843E-11	126.693	7.038
2.448824E-28	2.200893E-11	137.369	7.632
2.355665E-28	2.117166E-11	132.143	7.341

2.005281E-28	1.802256E-11	112.488	6.249
2.072171E-28	1.862374E-11	116.240	6.118
2.353407E-28	2.115137E-11	132.016	6.948
2.562780E-28	2.303312E-11	143.761	7.566
2.563114E-28	2.303612E-11	143.780	7.567
2.349949E-28	2.112029E-11	131.822	6.938
1.977451E-28	1.777244E-11	110.927	5.838
2.124481E-28	1.909388E-11	119.175	5.959
2.392061E-28	2.149878E-11	134.185	6.709
2.698418E-28	2.425217E-11	151.370	7.569
2.752477E-28	2.473803E-11	154.403	7.720
2.602203E-28	2.338743E-11	145.973	7.299
2.397108E-28	2.154414E-11	134.468	6.723
2.473801E-28	2.223342E-11	138.770	6.608
2.766263E-28	2.486193E-11	155.176	7.389
2.896899E-28	2.603603E-11	162.504	7.738
2.907095E-28	2.612767E-11	163.076	7.766
2.659715E-28	2.390433E-11	149.199	7.105
2.496687E-28	2.243910E-11	140.054	6.366
2.888377E-28	2.595944E-11	162.026	7.365
2.990139E-28	2.687403E-11	167.735	7.624
3.104428E-28	2.790121E-11	174.146	7.916
3.005173E-28	2.700915E-11	168.578	7.663
2.937266E-28	2.639883E-11	164.769	7.164
3.124462E-28	2.808126E-11	175.269	7.620
3.261753E-28	2.931517E-11	182.971	7.955
3.239560E-28	2.911571E-11	181.726	7.901
3.007356E-28	2.702877E-11	168.700	7.335
3.001690E-28	2.697784E-11	168.382	7.016
3.192943E-28	2.869674E-11	179.111	7.463
3.419853E-28	3.073611E-11	191.840	7.993
3.449878E-28	3.100596E-11	193.524	8.063
3.272934E-28	2.941566E-11	183.598	7.650
3.066253E-28	2.755811E-11	172.004	7.167
3.270634E-28	2.939499E-11	183.469	7.339
3.495222E-28	3.141349E-11	196.068	7.843
3.610514E-28	3.244968E-11	202.535	8.101
3.574748E-28	3.212823E-11	200.529	8.021
3.333682E-28	2.996164E-11	187.006	7.480
3.289748E-28	2.956678E-11	184.541	7.098
3.593868E-28	3.230007E-11	201.601	7.754
3.709912E-28	3.334302E-11	208.111	8.004
3.777356E-28	3.394918E-11	211.894	8.150
3.673105E-28	3.301222E-11	206.046	7.925
3.314995E-28	2.979369E-11	185.958	6.887
3.619377E-28	3.252934E-11	203.032	7.520
3.829821E-28	3.442072E-11	214.837	7.957

3.977548E-28	3.574842E-11	223.124	8.264
3.910395E-28	3.514488E-11	219.357	8.124
3.688461E-28	3.315023E-11	206.907	7.663
3.688841E-28	3.315365E-11	206.929	7.390
3.892983E-28	3.498839E-11	218.380	7.799
4.129133E-28	3.711080E-11	231.627	8.272
4.147842E-28	3.727894E-11	232.677	8.310
3.947179E-28	3.547548E-11	221.421	7.908
3.733005E-28	3.355058E-11	209.406	7.479
3.711268E-28	3.335521E-11	208.187	7.179
3.971724E-28	3.569608E-11	222.797	7.683
4.194587E-28	3.769907E-11	235.299	8.114
4.316057E-28	3.879079E-11	242.113	8.349
4.265655E-28	3.833780E-11	239.286	8.251
4.005825E-28	3.600256E-11	224.710	7.749
3.765232E-28	3.384022E-11	211.214	7.040
4.014067E-28	3.607663E-11	225.173	7.506
4.308017E-28	3.871853E-11	241.662	8.055
4.418175E-28	3.970858E-11	247.841	8.261
4.467439E-28	4.015134E-11	250.605	8.353
4.344072E-28	3.904257E-11	243.685	8.123

hmotnostn
í číslo
 A

MASS EXCE

(keV)

Závislost vazbové energie připadající na 1 nukleon na hmotnostním čísle

