

Day	A	B	C	D	E	Market Ind	A	B
1	570	98.4	669.1	53.9	103.5	333.4		
2	569	98.2	715	53.8	103	338.9	-0.001755927	-0.00203
3	563.8	96.6	725	53.2	101.9	346.8	-0.009180855	-0.01643
4	575.3	96.5	716	53.9	100	347.8	0.020192065	-0.00104
5	595.1	97	725	55.6	101.6	350.9	0.033837815	0.005168
6	602.8	98.4	727.5	57	101.2	348.1	0.012856008	0.01433
7	601.8	99	716.6	54.7	102	349.4	-0.001660303	0.006079
8	601.3	105.4	721.5	55.6	101.6	354.2	-0.000831186	0.062643
9	614.8	116.9	718.6	55.9	101.7	361.1	0.022203034	0.103556
10	628.1	119.6	717.8	56.5	100.5	372.7	0.021402378	0.022834
11	629	113.2	729.5	56.4	103.4	371.6	0.001431867	-0.055
12	618.6	109.5	702.6	54.9	102.3	395.9	-0.016672396	-0.03323
13	638	105	750.8	55	102.8	397.6	0.030879423	-0.04196
14	656	104.9	789.7	56.6	99.8	406.1	0.027822506	-0.00095
15	662	105.3	799.1	56.9	101.4	400.7	0.009104767	0.003806
16	669.4	105.7	805	56	100.9	396.6	0.011116233	0.003791
17	700.7	108.5	870	56.7	95.3	398.2	0.045698047	0.026145
18	709	110.3	937.6	57	65.7	400.9	0.011775691	0.016454
19	713	112.6	948.8	56.8	99.4	399.1	0.005625894	0.020638
20	708	113.9	951.5	56.5	99.2	401.1	-0.007037327	0.011479
							E(ri)	0.011410933 0.007699

rf 0.03 p.a.  
assumption 250  
rf\_p.d. 0.00012

covar\_iM -7.66363E-05 -2E-05  
var\_i 0.000267119 0.001223  
beta\_i -0.246231127 -0.06446  
E(ri) -0.002246253 -0.0005

Min.Variance portfolio

Covar\_M  
0.000267119 0.000122  
0.000122378 0.001223  
0.000257158 -0.00011  
0.000190277 0.000168  
-0.000253024 -1.4E-05

System of Matrices

0.000534238 0.000245  
0.000244757 0.002447  
0.000514316 -0.00021  
0.000380554 0.000337  
-0.000506048 -2.7E-05  
1 1  
3135.688208 -308.358

-308.3583546	450.2518
-723.9039686	127.2655
-2041.711841	-269.301
-61.71404383	0.141659
0.518336137	0.091635

E(ri)

0.011411
0.007699
0.018532
0.002479
-0.00223

Tag\_portfolio

7518.836014	-396.182
-396.1822772	939.4912
-1270.206012	285.9287
-3395.350697	-416.959
-50.43558186	13.18743

C	D	E	
0.066349	-0.00186	-0.00484	0.016362
0.013889	-0.01122	-0.01074	0.023043
-0.01249	0.013072	-0.01882	0.002879
0.012491	0.031053	0.015873	0.008874
0.003442	0.024868	-0.00394	-0.00801
-0.0151	-0.04119	0.007874	0.003728
0.006815	0.016319	-0.00393	0.013644
-0.00403	0.005381	0.000984	0.019293
-0.00111	0.010676	-0.01187	0.031619
0.016168	-0.00177	0.028447	-0.00296
-0.03757	-0.02696	-0.0107	0.063344
0.066352	0.00182	0.004876	0.004285
0.050514	0.028676	-0.02962	0.021153
0.011833	0.005286	0.015905	-0.01339
0.007356	-0.01594	-0.00494	-0.01028
0.077651	0.012423	-0.0571	0.004026
0.07483	0.005277	-0.37193	0.006758
0.011875	-0.00351	0.414053	-0.0045
0.002842	-0.0053	-0.00201	0.004999
0.018532	0.002479	-0.00223	0.00973

-0.00014	-5.8E-05	-0.00035	0.000311
0.001071	0.00033	0.017557	0.000311

-0.46036	-0.18606	-1.12845	1
-0.0043	-0.00167	-0.01072	0.00973

0.000257	0.00019	-0.00025	
-0.00011	0.000168	-1.4E-05	
0.001071	0.000203	-0.0015	
0.000203	0.00033	-0.00026	
-0.0015	-0.00026	0.017557	

0.000514	0.000381	-0.00051	1
-0.00021	0.000337	-2.7E-05	1
0.002143	0.000407	-0.00299	1
0.000407	0.000659	-0.00052	1
-0.00299	-0.00052	0.035114	1
1	1	1	0

-723.904	-2041.71	-61.714	0.518336
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beta	alfa	beta
-0.24623	0.013807	-0.06446
0.216607	0.004275	0.480577
0.070644	0.016213	0.001057
1.292229	17	0.017993
0.00034	0.004468	2.33E-05

vrs	
	0
	0
	0
	0
	0
	0
	1

wi	0.518336137	0.091635
	0.518336	

127.2655	-269.301	0.141659	0.091635	0.091635	7.17675E-05	5.81E-06
713.6363	-162.924	45.92632	0.073796	0.073796	5.8127E-06	1.03E-05
-162.924	2488.709	-14.7721	0.285904	0.285904	9.83657E-06	-7.2E-07
45.92632	-14.7721	30.41821	0.030329	0.030329	2.81979E-05	4.41E-06
0.073796	0.285904	0.030329	-0.00043	-0.00043	-3.9777E-06	-3.8E-08

proof	1	Rp	0.008629
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Rp/sig_p	0.587975
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VPS

-1270.21	-3395.35	-50.4356	0.011291
285.9287	-416.959	13.18743	0.007579
1452.558	-227.887	102.2446	0.018412
-227.887	5356.944	10.71687	0.002359
102.2446	10.71687	65.10743	-0.00235

Zi	Wi	1.28109
50.61254	1.28109	
6.896739	0.174568	0.000438
13.79127	0.349081	2.74E-05
-33.0782	-0.83727	0.000115
1.285067	0.032527	-0.0002
		-1.1E-05

suma_Zi	39.5074	1
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Rp	0.020283
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Rp/sig\_p

alfa	beta	alfa	beta	alfa	beta
0.008326	-0.46036	0.023011	-0.18606	0.00429	-1.12845
0.009485	0.435922	0.008604	0.245452	0.004844	1.800924
0.03597	0.061566	0.032628	0.032694	0.018372	0.022574
17	1.115282	17	0.574584	17	0.392624
0.021996	0.001187	0.018098	0.000194	0.005738	0.007134

0.073796 0.285903523 0.030329

9.84E-06	2.81979E-05	-4E-06
-7.2E-07	4.40873E-06	-3.8E-08
5.83E-06	4.28886E-06	-3.3E-06
4.29E-06	2.6937E-05	-2.3E-06
-3.3E-06	-2.25589E-06	1.62E-05

Var\_p 0.000215376 Sigma\_p 0.014676

total risk = syst. Risk+unsyst. Risk

sym risk is  $\beta^2 \cdot \text{var}_m$

$\beta_p = \sum w_i \cdot \beta_i$

beta\_p -0.254929935

VarP\_syst- $\beta$  2.02271E-05 0.004497

Unsys\_par 0.000195149 0.01397

0.174568 0.349080762 -0.83727 0.032527

2.74E-05 0.000115002 -0.0002 -1.1E-05

3.73E-05 -6.48549E-06 -2.5E-05 -7.7E-08

-6.5E-06 0.000130559 -5.9E-05 -1.7E-05

-2.5E-05 -5.94128E-05 0.000231 7.09E-06

-7.7E-08 -1.69778E-05 7.09E-06 1.86E-05

Var\_p 0.000510358 Sigma\_p 0.022591

rych.zpusol 0.000510358

0.897828

alfa

0.008746

0.035544

0.134796

17

0.30889

Date	KO	MCD	Goog	AMZN	S&P500	
4/17/2017	43.07	133.41	843.190002	898.530029	2348.68994	
4/24/2017	43.150002	139.92999	905.960022	924.98999	2384.19995	0.001855765
5/1/2017	43.689999	143.96001	927.130005	934.150024	2399.29004	0.012436756
5/8/2017	43.59	145.36	932.219971	961.349976	2390.8999	-0.00229145
5/15/2017	43.900002	148.14999	934.01001	959.840027	2381.72998	0.007086599
5/22/2017	45.389999	149.86	971.469971	995.780029	2415.82007	0.033377429
5/29/2017	45.889999	153.74001	975.599976	1006.72998	2439.07007	0.010955412
6/5/2017	45.32	151.48	949.830017	978.309998	2431.77002	-0.01249877
6/12/2017	45.310001	151.99001	939.780029	987.710022	2433.1499	-0.00022066
6/19/2017	45.25	154.64	965.590027	1003.73999	2438.30005	-0.00132511
6/26/2017	44.849998	153.16	908.72998	968	2423.40991	-0.00887913
7/3/2017	44.389999	156.27	918.590027	978.76001	2425.17993	-0.01030935
7/10/2017	44.68	155.28	955.98999	1001.81	2459.27002	0.006511778
7/17/2017	45.029999	153.92	972.919983	1025.67004	2472.54004	0.007802938
7/24/2017	46.009998	155.85001	941.530029	1020.03998	2472.1001	0.021529809
7/31/2017	45.5	153.82001	927.960022	987.580017	2476.83008	-0.01114639
8/7/2017	45.59	157.3	914.390015	967.98999	2441.32007	0.001976068
8/14/2017	45.669998	157.76	910.669983	958.469971	2425.55005	0.001753189
8/21/2017	45.57	158.82001	915.890015	945.26001	2443.05005	-0.00219198
8/28/2017	45.779999	159.81	937.340027	978.25	2476.55005	0.004597687
9/4/2017	46.299999	159.71001	926.5	965.900024	2461.42993	0.011294647
9/11/2017	46.18	156.92	920.289978	986.789978	2500.22998	-0.00259514
9/18/2017	45.490002	158.91	928.530029	955.099976	2502.21997	-0.01505424
9/25/2017	45.009998	156.67999	959.109985	961.349976	2519.36011	-0.01060792
10/2/2017	45.490002	159.60001	978.890015	989.580017	2549.33008	0.010607923
10/9/2017	46.18	165.37	989.679993	1002.94	2553.16992	0.015054238
#####	46.380001	166.3	988.200012	982.909973	2575.20996	0.004321549
#####	46.07	165.39	1019.27002	1100.94995	2581.07007	-0.00670637
#####	45.970001	168.64999	1032.47998	1111.59998	2587.84009	-0.00217295
11/6/2017	46.540001	165.59	1028.06995	1125.34998	2582.30005	0.012323148
#####	45.709999	166.72	1019.09003	1129.88001	2578.8501	-0.01799511
#####	45.880001	169.11	1040.60999	1186	2602.41992	0.003712244
#####	45.970001	172.87	1010.16998	1162.34998	2642.21997	0.001959718
12/4/2017	45.310001	173.14999	1037.05005	1162	2651.5	-0.01446125
#####	46.189999	174.06	1064.18994	1179.14002	2675.81006	0.019235522
#####	45.59	171.42	1060.12	1168.35999	2683.34009	-0.01307491
#####	45.880001	172.12	1046.40002	1169.46997	2673.61011	0.00634092
1/1/2018	46.07	174.05	1102.22998	1229.14002	2743.1499	0.004132665
1/8/2018	46.150002	173.57001	1122.26001	1305.19995	2786.23999	0.001735025
1/15/2018	47.16	176.12	1137.51001	1294.57996	2810.30005	0.021649071
1/22/2018	48.529999	178.36	1175.83997	1402.05005	2872.87012	0.028636067
1/29/2018	46.73	169.38001	1111.90002	1429.94995	2762.12988	-0.03779579
2/5/2018	43.130001	160.8	1037.78003	1339.59998	2619.55005	-0.08016752
2/12/2018	44.98	157.78999	1094.80005	1448.68994	2732.21997	0.041999113
2/19/2018	44.040001	163.06	1126.79004	1500	2747.30005	-0.02111961
2/26/2018	43.720001	148.27	1078.92004	1500.25	2691.25	-0.00729265
3/5/2018	44.82	157.24001	1160.04004	1578.89002	2786.57007	0.024848782
3/12/2018	43.459999	162.36	1135.72998	1571.68005	2752.01001	-0.03081352
3/19/2018	42.330002	154.98	1021.57001	1495.56006	2588.26001	-0.02634485



3/26/2018	43.43	156.38001	1031.79004	1447.33997	2640.87012	0.025654345
4/2/2018	43.919998	161.25	1007.03998	1405.22998	2604.46997	0.011219305
4/9/2018	44.509998	161.73	1029.27002	1430.79004	2656.30005	0.013344086
4/16/2018	43.740002	158.77	1072.95996	1527.48999	2670.13989	-0.01745078
4/23/2018	43.310001	158.3	1030.05005	1572.62	2669.90991	-0.00987948
4/30/2018	42.360001	165.03	1048.20996	1580.94995	2663.41992	-0.02217903
5/7/2018	42.139999	165.39	1098.26001	1602.91003	2727.71997	-0.00520716
5/14/2018	42.18	160.98	1066.35999	1574.37	2712.96997	0.00094879
5/21/2018	42.400002	163.21001	1075.66003	1610.15002	2721.33008	0.005202234
5/28/2018	43.119999	159.16	1119.5	1641.54004	2734.62012	0.016838494
6/4/2018	43.950001	168.91	1120.87	1683.98999	2779.03003	0.019065743
6/11/2018	44.119999	166.46001	1152.26001	1715.96997	2779.65991	0.003860525
6/18/2018	43.25	164.55	1155.47998	1715.67004	2754.87988	-0.01991594
6/25/2018	43.860001	156.69	1115.65002	1699.80005	2718.37012	0.014005532
7/2/2018	44.639999	159.42	1140.17004	1710.63001	2759.82007	0.01762753
7/9/2018	44.740002	158.51	1188.81995	1813.03003	2801.31006	0.002237705
7/16/2018	45.279999	157.97	1184.91003	1813.69995	2801.83008	0.011997411
7/23/2018	46.209999	157.48	1238.5	1817.27002	2818.82007	0.020330791
7/30/2018	46.619999	156.21001	1223.70996	1823.29004	2840.3501	0.008833409
8/6/2018	46.080002	158.67999	1237.60999	1886.30005	2833.28003	-0.01165055
8/13/2018	46.599998	161.14999	1200.95996	1882.21997	2850.12988	0.011221438
8/20/2018	45.630001	159.38001	1220.65002	1905.39002	2874.68994	-0.02103508
8/27/2018	44.57	162.23	1218.18994	2012.70996	2901.52002	-0.02350443
9/3/2018	45.720001	163.89999	1164.82996	1952.06995	2871.67993	0.025474874
9/10/2018	45.990002	160.84	1172.53003	1970.18994	2904.97998	0.005888164
9/17/2018	46.580002	165.3	1166.08997	1915.01001	2929.66992	0.012747282
9/24/2018	46.189999	167.28999	1193.46997	2003	2913.97998	-0.008408
10/1/2018	45.880001	166.57001	1157.34998	1889.65002	2885.57007	-0.00673399
10/8/2018	44.68	163.82001	1110.07996	1788.60999	2767.12988	-0.02650334
#####	46.330002	167.49001	1096.45996	1764.03003	2767.78003	0.036263768
#####	45.919998	173.34	1071.46997	1642.81006	2658.68994	-0.00888903
#####	48	176.75	1057.79004	1665.53003	2723.06006	0.044300302
11/5/2018	49.68	185.94	1066.15002	1712.43005	2781.01001	0.034401427
#####	50.169998	187.59	1061.48999	1593.41003	2736.27002	0.009814761
#####	49.02	181.92999	1023.88001	1502.06006	2632.56006	-0.02318882
#####	50.400002	188.51	1094.43005	1690.17004	2760.16992	0.027762837
12/3/2018	49.09	182.96001	1036.57996	1629.13001	2633.08008	-0.02633587
#####	49.34	183.28999	1042.09998	1591.91003	2599.94995	0.005079763
#####	47.57	174.14999	979.539978	1377.44995	2416.62012	-0.0365328
#####	47.200001	175.56	1037.07996	1478.02002	2485.73999	-0.0078084
#####	47.57	178.28	1070.70996	1575.39002	2531.93994	0.007808397
1/7/2019	47.34	182.37	1057.18994	1640.56006	2596.26001	-0.00484671
1/14/2019	47.610001	182.57001	1098.26001	1696.19995	2670.70996	0.00568724
1/21/2019	47.369999	184	1090.98999	1670.56995	2664.76001	-0.00505375
1/28/2019	48.700001	176.72	1110.75	1626.22998	2706.53003	0.027689955
2/4/2019	49.5	174.75	1095.06006	1588.21997	2707.87988	0.016293619
2/11/2019	45.240002	179.97	1113.65002	1607.94995	2775.6001	-0.08999097
2/18/2019	45.279999	183.17	1110.37	1631.56006	2792.66992	0.000883716
2/25/2019	45.380001	185.05	1140.98999	1671.72998	2803.68994	0.00220609
3/4/2019	44.84	179.5	1142.31995	1620.80005	2743.07007	-0.0119709

3/11/2019	45.299999	185.33	1184.45996	1712.35999	2822.47998	0.010206412
3/18/2019	45.93	186.81	1205.5	1764.77002	2800.70996	0.013811488
3/25/2019	46.860001	189.89999	1173.31006	1780.75	2834.3999	0.020045956
4/1/2019	46.470001	190.71001	1207.15002	1837.28003	2892.73999	-0.00835749
4/8/2019	46.740002	191.60001	1217.87	1843.06006	2907.40991	0.005793407

E(ri) 0.000793919

rf=2,7%p.a.  
48 tydnu/rok  
rf per week 0.0005625  
korektne - efektivni r\_ef  
0.000555194

covar\_i 0.000205049  
beta\_i 0.528597863  
E(ri)\_capm 0.001356918  
gama -0.000563

Min Var

0.000423523  
0.00015167  
0.000221702  
0.000220757

Mat soustavy

0.000847046  
0.00030334  
0.000443405  
0.000441513  
1

Inv\_M

837.6242187  
-520.048576  
-235.260223  
-82.315419  
0.588904005

E(ri)

0.0007939  
0.0035144  
0.0035696  
0.006975

tg-portfolio

2768.307195  
-424.038923  
-379.786368  
-108.392036



0.047715	0.071803	0.029023	0.015006
0.028393	0.023099	0.009854	0.006309
0.009678	0.005475	0.028701	-0.0035
0.019012	0.001918	-0.00157	-0.00384
0.011476	0.039323	0.03676	0.014212
0.025561	0.004242	0.010936	0.009578
-0.01481	-0.02677	-0.02864	-0.003
0.003361	-0.01064	0.009563	0.000567
0.017285	0.027094	0.016099	0.002114
-0.00962	-0.06069	-0.03626	-0.00613
0.020102	0.010792	0.011054	0.00073
-0.00636	0.039908	0.023277	0.013959
-0.0088	0.017554	0.023538	0.005381
0.012461	-0.0328	-0.0055	-0.00018
-0.01311	-0.01452	-0.03234	0.001912
0.022372	-0.01473	-0.02004	-0.01444
0.00292	-0.00408	-0.00988	-0.00648
0.006697	0.005716	-0.01388	0.007189
0.006214	0.02315	0.034305	0.013619
-0.00063	-0.01163	-0.0127	-0.00612
-0.01762	-0.00673	0.021397	0.01564
0.012602	0.008914	-0.03264	0.000796
-0.01413	0.032403	0.006522	0.006827
0.018465	0.020414	0.028942	0.011826
0.035515	0.010962	0.01341	0.001505
0.005608	-0.0015	-0.02017	0.008595
-0.00549	0.030957	0.113411	0.002273
0.019519	0.012877	0.009627	0.00262
-0.01831	-0.00428	0.012294	-0.00214
0.006801	-0.00877	0.004017	-0.00134
0.014234	0.020897	0.048475	0.009098
0.02199	-0.02969	-0.02014	0.015178
0.001618	0.026262	-0.0003	0.003506
0.005242	0.025834	0.014643	0.009127
-0.01528	-0.00383	-0.00918	0.00281
0.004075	-0.01303	0.00095	-0.00363
0.011151	0.05198	0.049764	0.025677
-0.00276	0.018009	0.060041	0.015586
0.014585	0.013497	-0.00817	0.008598
0.012638	0.033141	0.079749	0.02202
-0.05166	-0.05591	0.019704	-0.03931
-0.05198	-0.06899	-0.06527	-0.053
-0.0189	0.053488	0.078289	0.042112
0.032853	0.028801	0.034805	0.005504
-0.09508	-0.04341	0.000167	-0.02061
0.058738	0.072494	0.05109	0.034806
0.032043	-0.02118	-0.00458	-0.01248
-0.04652	-0.10593	-0.04964	-0.06135

0.008993	0.009955	-0.03277	0.020123
0.030667	-0.02428	-0.02953	-0.01388
0.002972	0.021835	0.018026	0.019705
-0.01847	0.041571	0.065399	0.005197
-0.00296	-0.04081	0.029117	-8.6E-05
0.041635	0.017477	0.005283	-0.00243
0.002179	0.046643	0.013795	0.023855
-0.02703	-0.02948	-0.01797	-0.00542
0.013758	0.008683	0.022472	0.003077
-0.02513	0.039948	0.019307	0.004872
0.059456	0.001223	0.025531	0.016109
-0.01461	0.02762	0.018813	0.000227
-0.01154	0.002791	-0.00017	-0.00895
-0.04895	-0.03508	-0.00929	-0.01334
0.017273	0.02174	0.006351	0.015133
-0.00572	0.041784	0.058138	0.014922
-0.00341	-0.00329	0.000369	0.000186
-0.00311	0.044234	0.001966	0.006046
-0.0081	-0.01201	0.003307	0.007609
0.015688	0.011295	0.033975	-0.00249
0.015446	-0.03006	-0.00217	0.00593
-0.01104	0.016262	0.012235	0.00858
0.017724	-0.00202	0.054795	0.00929
0.010241	-0.04479	-0.03059	-0.01034
-0.01885	0.006589	0.00924	0.011529
0.027352	-0.00551	-0.02841	0.008463
0.011967	0.023209	0.044923	-0.00537
-0.00431	-0.03073	-0.05825	-0.0098
-0.01665	-0.0417	-0.05495	-0.04191
0.022155	-0.01235	-0.01384	0.000235
0.034331	-0.02306	-0.07119	-0.04021
0.019481	-0.01285	0.013735	0.023923
0.050688	0.007872	0.02777	0.021058
0.008835	-0.00438	-0.07204	-0.01622
-0.03064	-0.03607	-0.05904	-0.03864
0.035529	0.066634	0.117992	0.047335
-0.02988	-0.05431	-0.03678	-0.04714
0.001802	0.005311	-0.02311	-0.01266
-0.05115	-0.06191	-0.1447	-0.07312
0.008064	0.057081	0.070469	0.0282
0.015374	0.031913	0.0638	0.018415
0.022682	-0.01271	0.040535	0.025086
0.001096	0.038113	0.033353	0.028272
0.007802	-0.00664	-0.01523	-0.00223
-0.04037	0.01795	-0.0269	0.015553
-0.01121	-0.01423	-0.02365	0.000499
0.029434	0.016834	0.012346	0.024701
0.017624	-0.00295	0.014577	0.006131
0.010211	0.027203	0.024322	0.003938
-0.03045	0.001165	-0.03094	-0.02186

0.031963	0.036226	0.054953	0.028538
0.007954	0.017607	0.030148	-0.00774
0.016406	-0.02707	0.009014	0.011957
0.004256	0.028433	0.031252	0.020374
0.004656	0.008841	0.003141	0.005058
0.003514	0.00357	0.006975	0.002072

0.000247	0.000468	0.000547	0.000388
0.635902	1.207719	1.410699	1

0.00152	0.002387	0.002695	0.002072
0.001995	0.001183	0.00428	

0.000152	0.000222	0.000221
0.000609	0.000339	0.000304
0.000339	0.000997	0.000844
0.000304	0.000844	0.001491

				VPS	
0.000303	0.000443	0.000442	1		0
0.001218	0.000677	0.000608	1		0
0.000677	0.001994	0.001689	1		0
0.000608	0.001689	0.002982	1		0
1	1	1	0		1

0.588904 0.331912

				wi		
-520.049	-235.26	-82.3154	0.588904	0.588904	0.000147	2.96E-05
871.4157	-321.754	-29.6131	0.331912	0.331912	2.96E-05	6.71E-05
-321.754	1090.877	-533.863	0.048885	0.048885	6.38E-06	5.49E-06
-29.6131	-533.863	645.7914	0.0303	0.0303	3.94E-06	3.05E-06
0.331912	0.048885	0.0303	-0.00063	-0.00063		

zk 1

Rp 0.00202

				VPS	
-424.039	-379.786	-108.392	0.000239		
2090.048	-592.369	-27.5295	0.002959		
-592.369	2189.286	-1063.06	0.003014		
-27.5295	-1063.06	1294.476	0.00642		

-0.5274 0.892777

Zi	wi		
-2.43463	-0.5274	0.000118	-7.1E-05
4.121282	0.892777	-7.1E-05	0.000486

-2.06886	-0.44817	5.24E-05	-0.00014
4.998452	1.082795	-0.00013	0.000294

sum_Zi	4.616251	1
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Rp	0.008672
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0.048885 0.0303

6.38E-06	3.94E-06	0.000147	2.96E-05	6.38E-06	3.94E-06
5.49E-06	3.05E-06	2.96E-05	6.71E-05	5.49E-06	3.05E-06
2.38E-06	1.25E-06	6.38E-06	5.49E-06	2.38E-06	1.25E-06
1.25E-06	1.37E-06	3.94E-06	3.05E-06	1.25E-06	1.37E-06

Var_p	0.000317	sigma_p	0.017812	rp/sigma_p	0.113396
beta_p	0.624139				
sys_var_p	0.000151				
Nes_var_p	0.000166				

-0.44817 1.082795

5.24E-05 -0.00013  
-0.00014 0.000294

0.0002 -0.00041  
-0.00041 0.001748

Var\_p 0.001758 sigma\_p 0.041931 rp/sigma\_p 0.206805  
rych\_var\_p 0.001758  
beta\_p 1.275171  
sys\_var\_p 0.000631  
Nes\_var\_p 0.001127