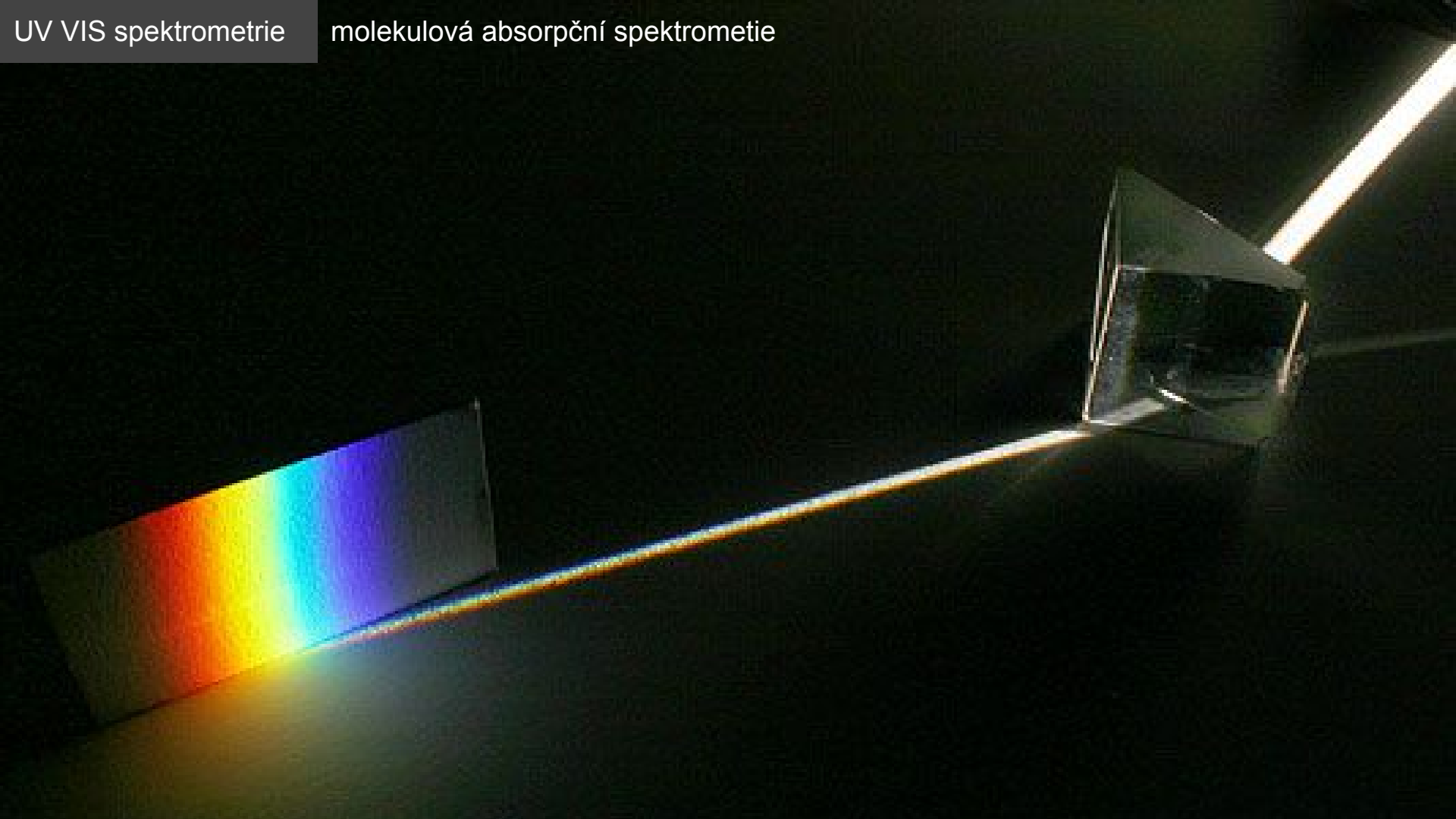
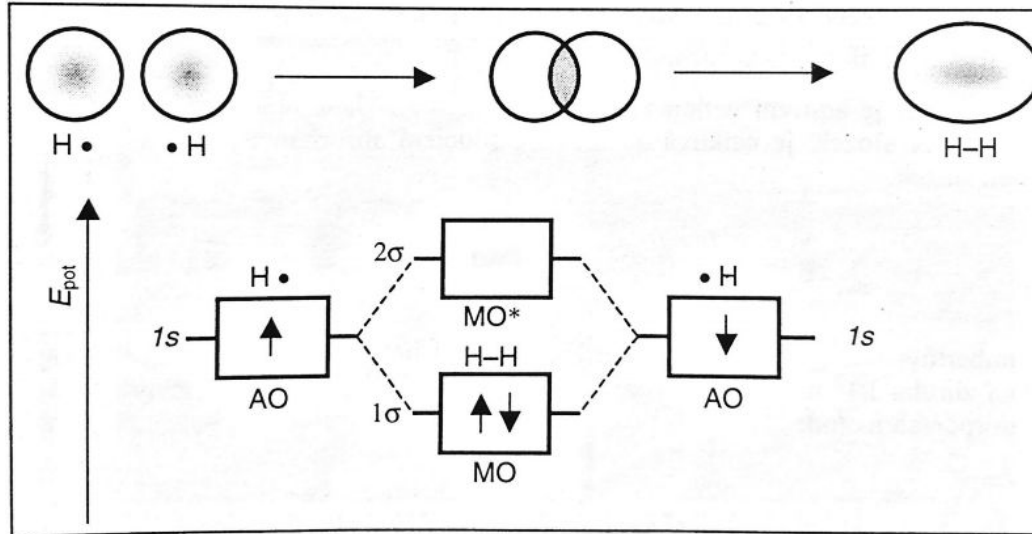


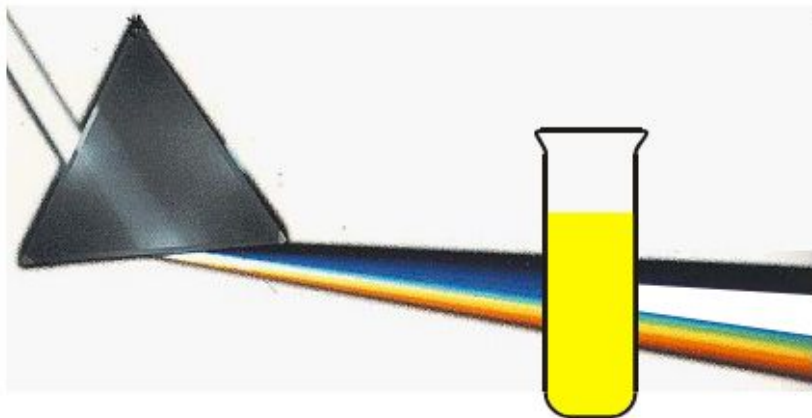
UV VIS spektrometrie

molekulová absorpční spektrometrie





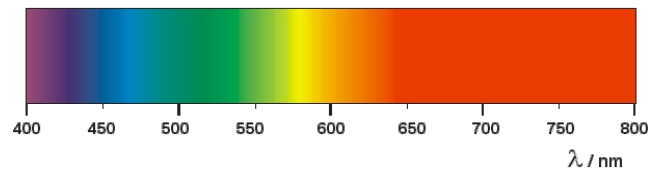
Označení	$\lambda$	Absorbující látky
Vzdálená ultrafialová oblast far UV (vakuová oblast)	<190 nm	nasyčené sloučeniny monoénové sloučeniny
Blízká ultrafialová oblast near UV	190-380 nm	polynenasycené a aromatické sloučeniny
Viditelná oblast VIS	380-780 nm	barevné látky

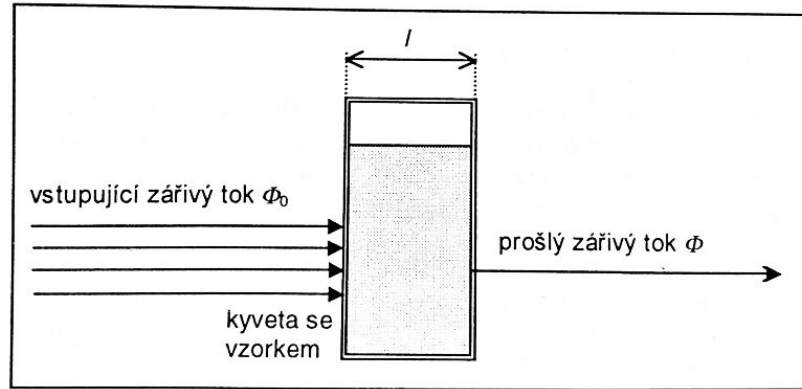


absorpce komplementární složky



koláč komplementárních barev





Transmittance

$$T = \frac{\Phi}{\Phi_0} \quad T = \frac{\Phi}{\Phi_0} 100 (\%)$$

$\Phi_0$  ..... dopadající zářivý

$\Phi$  ..... prošlý zářivý tok

Absorbance

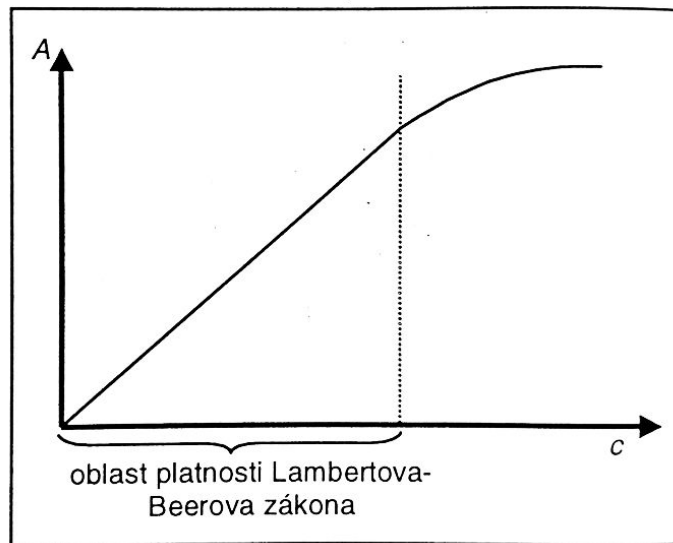
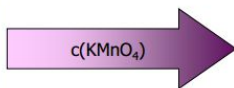
$$A = -\log T = \log \frac{\Phi_0}{\Phi}$$

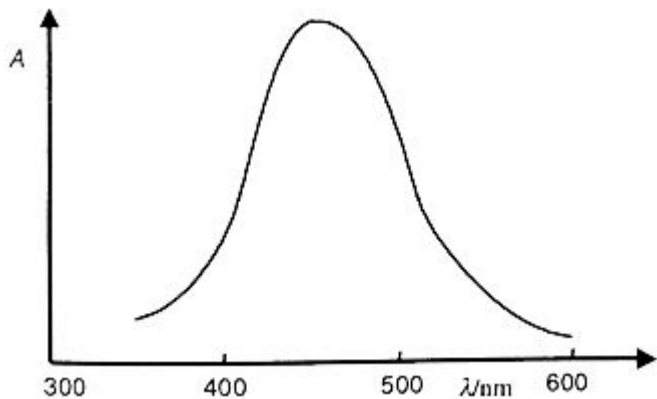
$$A = \varepsilon \cdot c \cdot l$$

$\varepsilon$  .. molární absorpční koeficient

$c$  .. koncentrace

$l$  .. délka optické dráhy





elektronové absorpční spektrum  
4-chlor-2-nitrofenolu

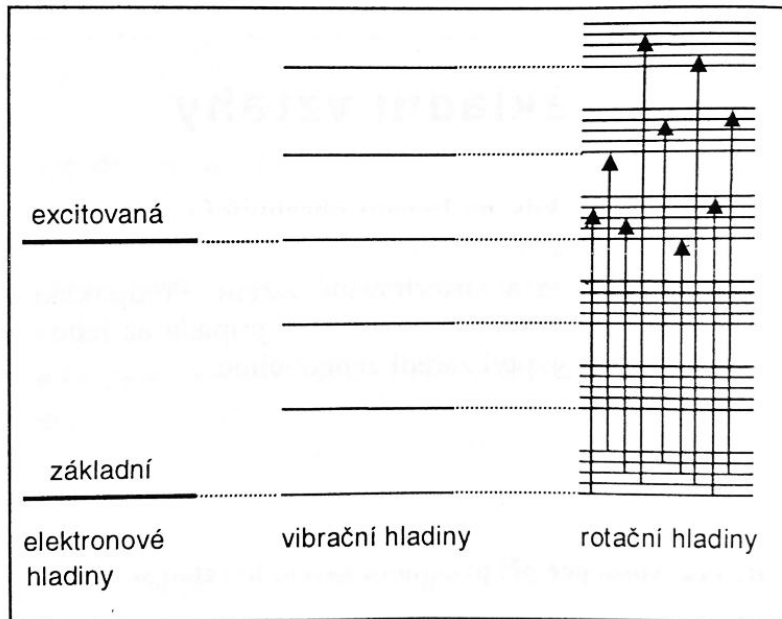
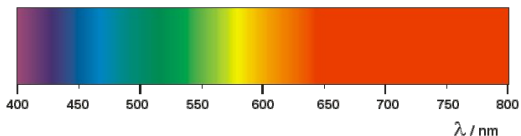
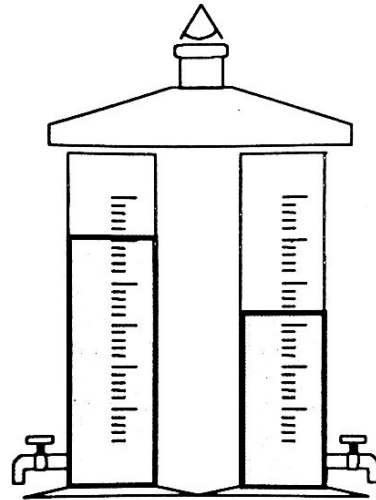
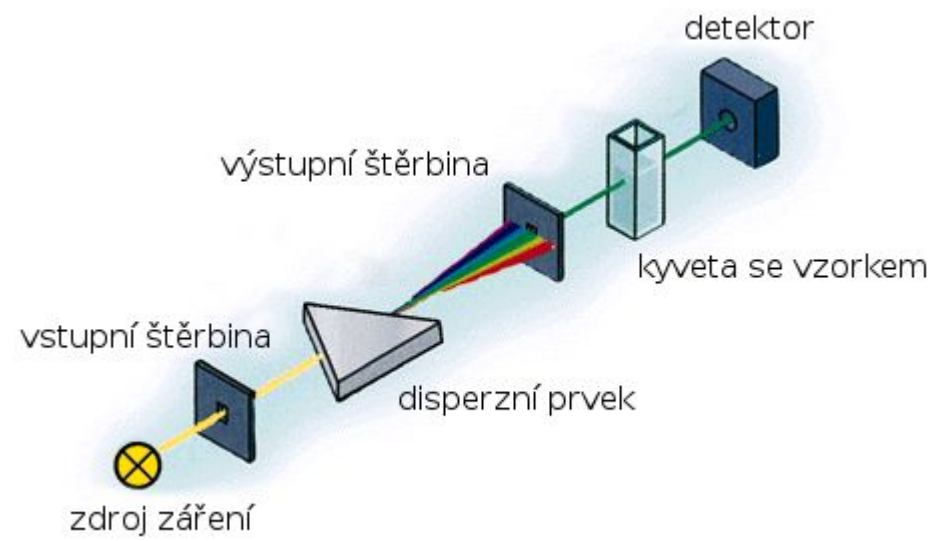


schéma přechodů elektronu při absorpci UV/VIS

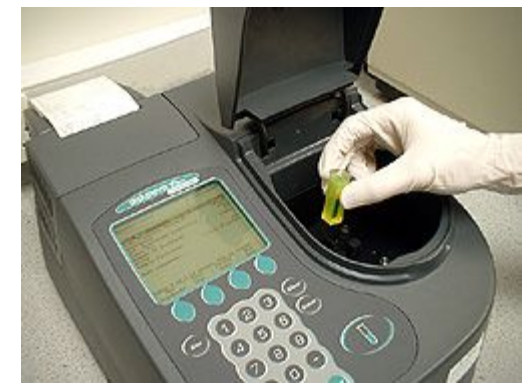


kolorimetr podle Wolffa

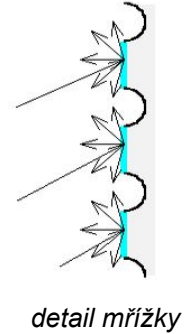
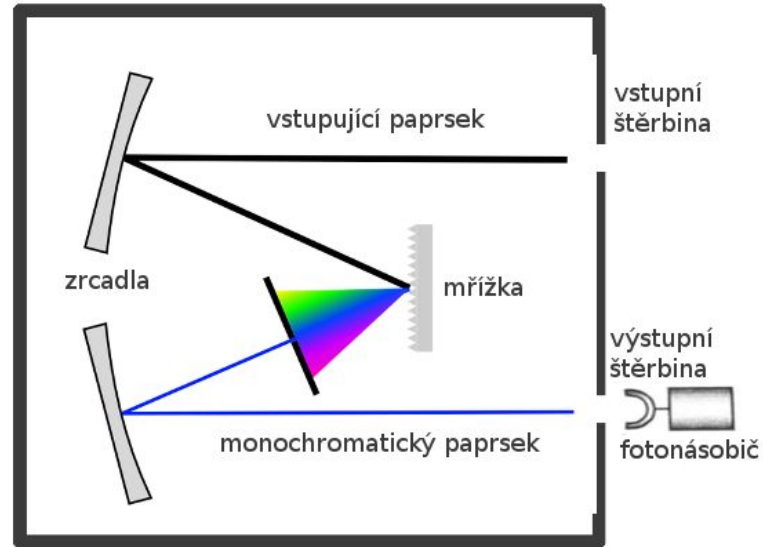




základní schéma spektrofotometru



UV VIS spektrometr



monochromátor konstrukce Czerny-Turner

