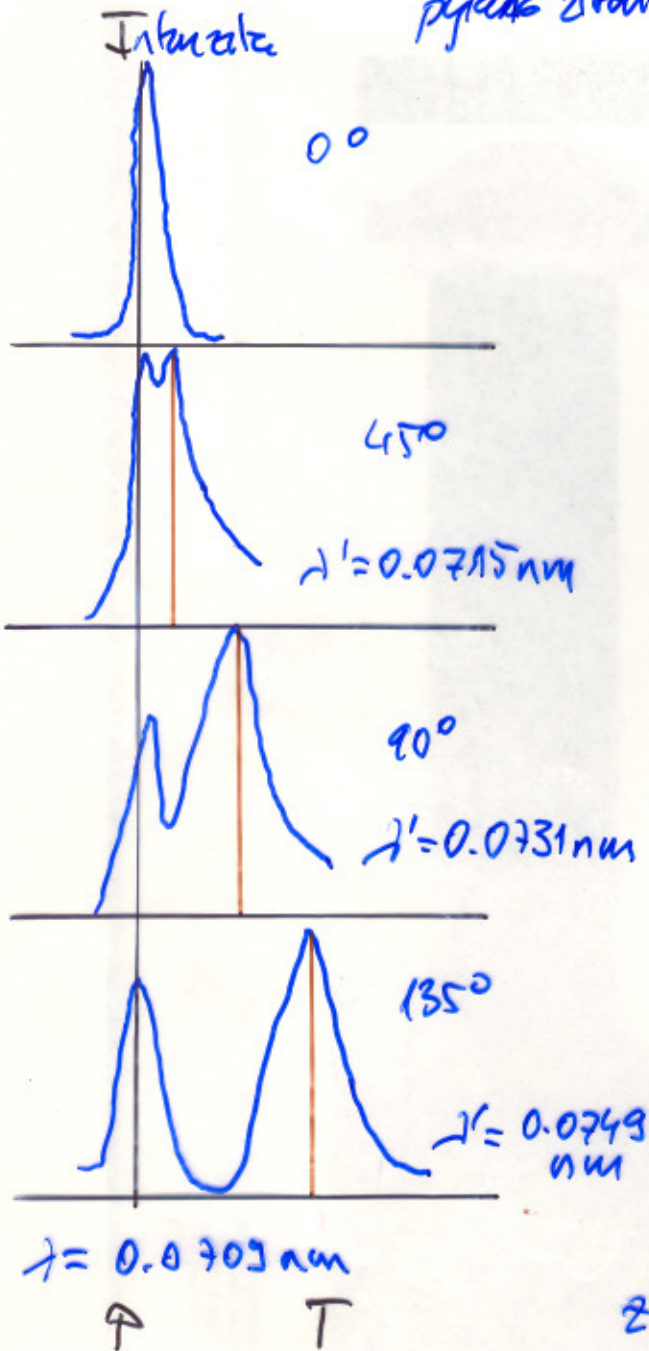
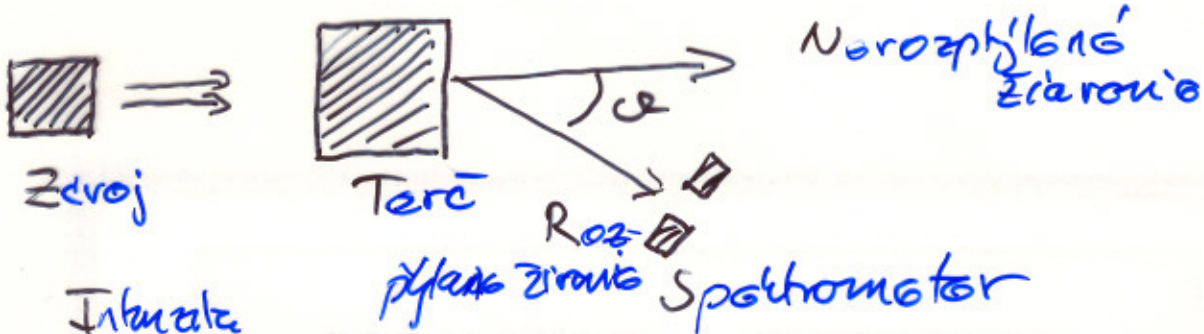


COMPTONOV JAV (1922)

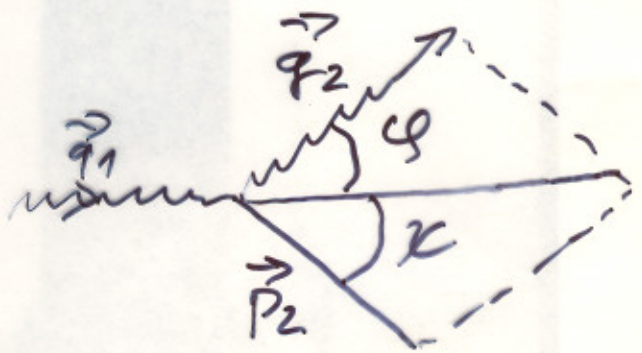
Rozptyl svetla na slabovláknových alebo volných e⁻



KED - e⁻ sa má rozbehnúť a žiarenie s normálnou frekvenciou Rayleighou rozptyl.

Pozorovanie:

$$\Delta\lambda = 2\lambda \sin^2 \frac{\phi}{2}$$



Energia:

$$h\omega + E_1 = h\omega' + E_2 \quad (1)$$

$$E^2 = p^2 c^2 + m_0^2 c^4$$

pre foton $\Rightarrow p = \frac{E}{c} = \frac{h\omega}{c}$