

Fig. 1 – Multiple reflections inside the etalon of the incoming light ray 0 give rise to multiple-beam interference of the outgoing rays 1, 2, 3,...

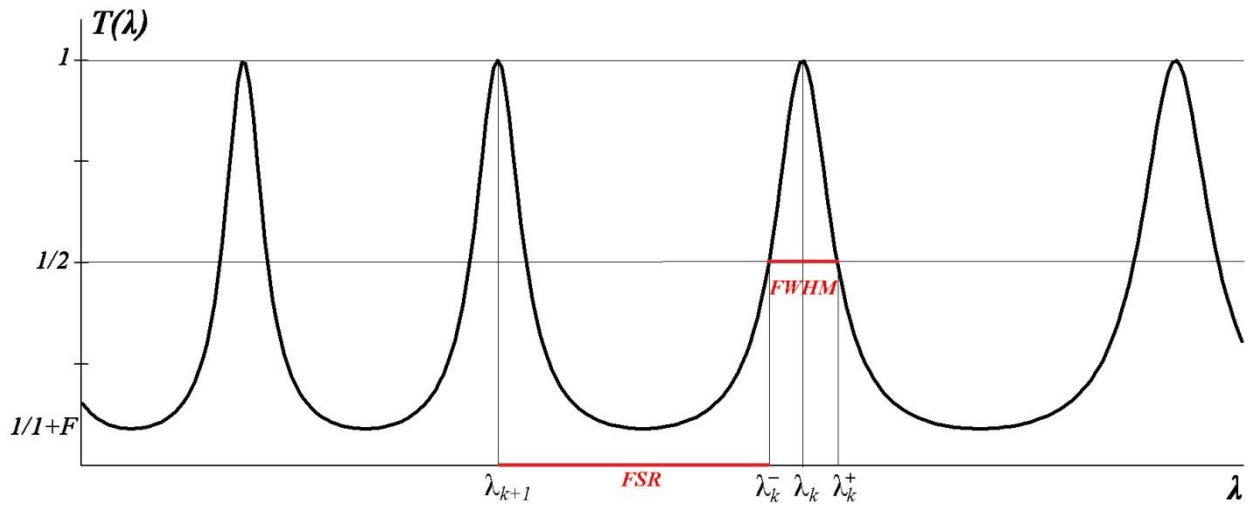


Fig. 2 – Transmission factor  $T(\lambda)$  of a Fabry-Perot etalon as a function of the wavelength  $\lambda$ , with free spectral range  $FSR$  and full width at half maximum  $FWHM$ .

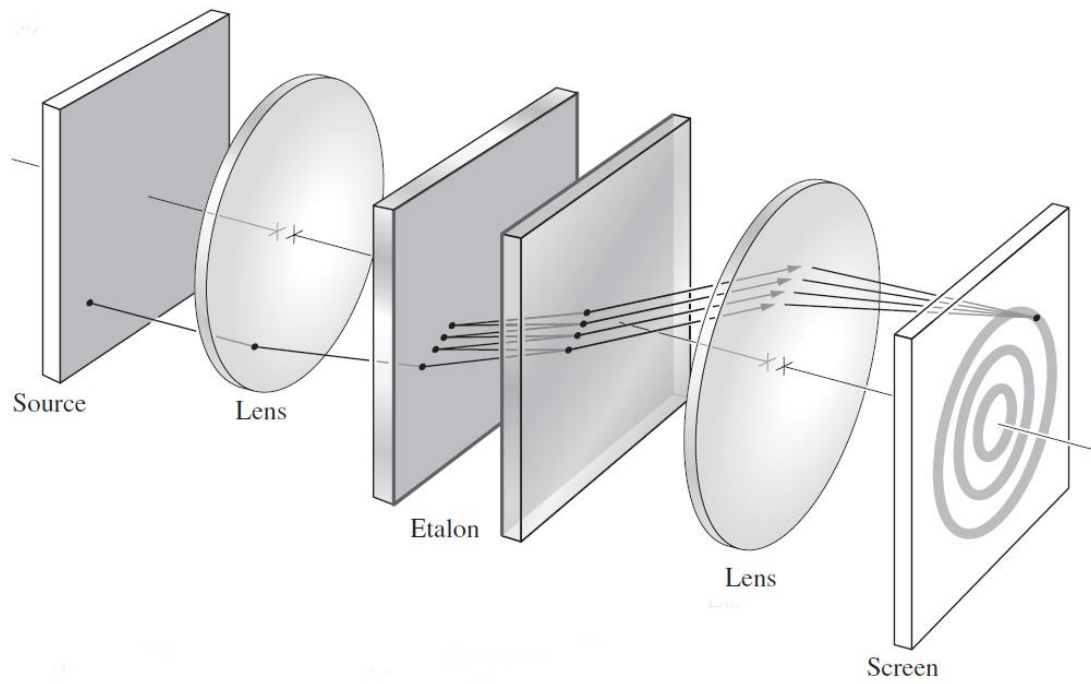


Fig. 3 – Etalon on the test bench: interference rings in the focal plane of the imaging lens.  
Source: E. Hecht, Optics, Pearson 2017.

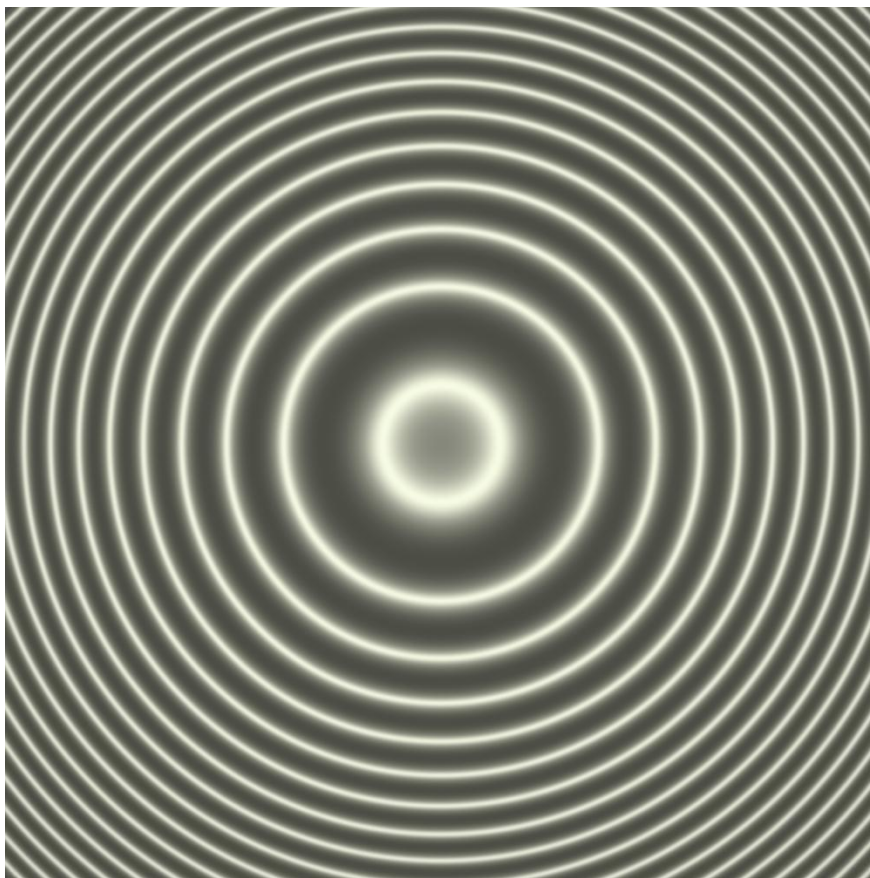


Fig. 4 – Pattern of concentric interference rings. Source: Wikipedia.

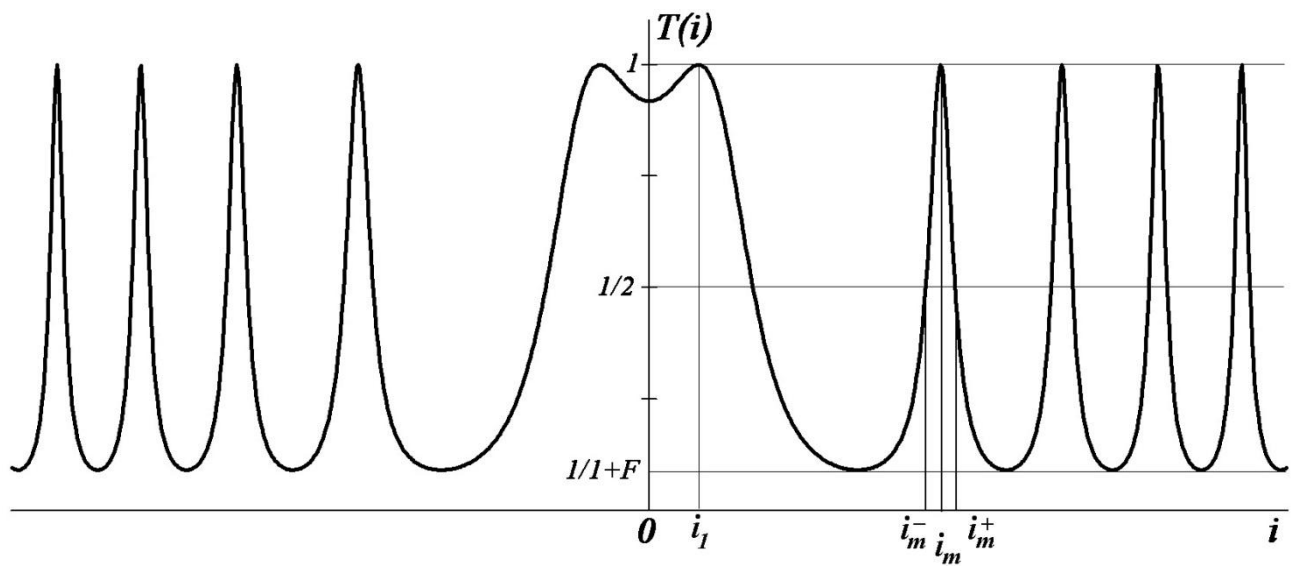


Fig. 5 – Transmission factor  $T(i)$  of a Fabry-Perot etalon as a function of the angle  $i$  of incoming rays: profile of interference rings.

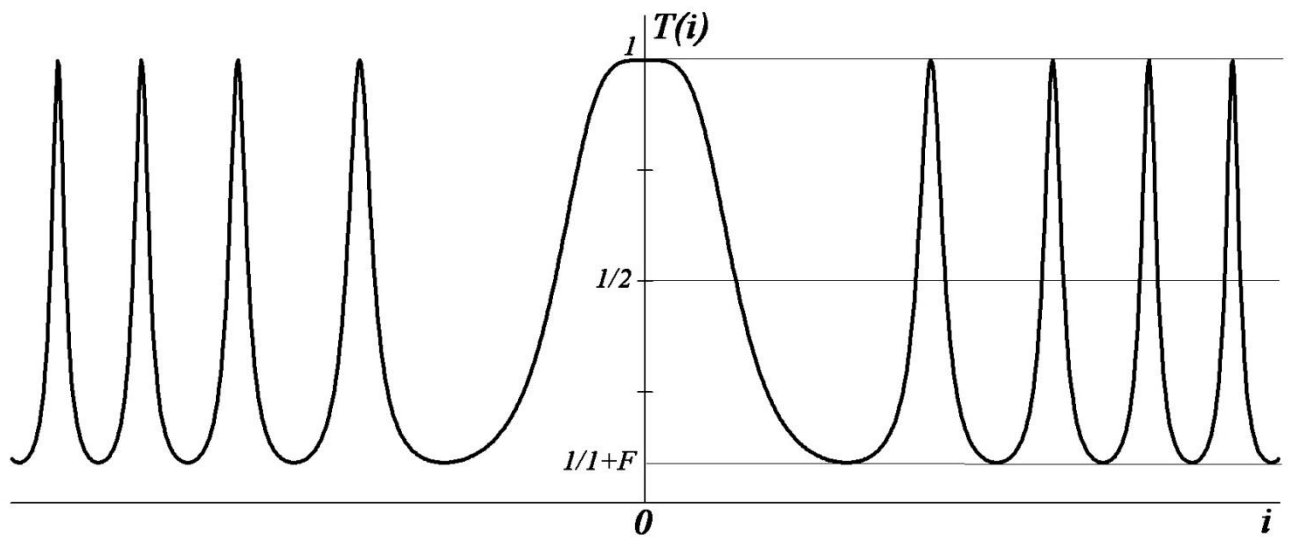


Fig. 6 – Transmission factor  $T(i)$ : profile of interference rings for a filter perfectly tuned on  $H\alpha$  ( $i_1 = 0$ ).