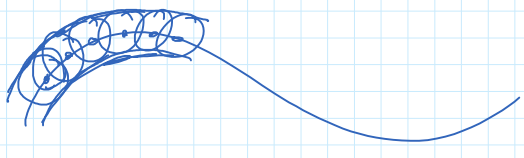


Ausbreitungsgeschw. c

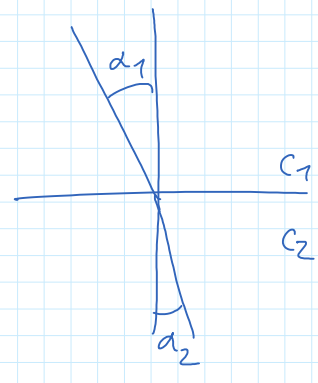
Medium 1 $c_1 = \frac{c}{n_1}$
 2 $c_2 = \frac{c}{n_2}$



Gesetz von Snellius:

(8.32) $\frac{\sin \alpha}{\sin \beta} = \frac{c_1}{c_2}$

$\frac{\sin \alpha_1}{\sin \alpha_2} = \frac{c_1}{c_2}$



$n_1 \sin \alpha_1 = n_2 \sin \alpha_2 \rightarrow$ nächste Woche Optik

Prisma

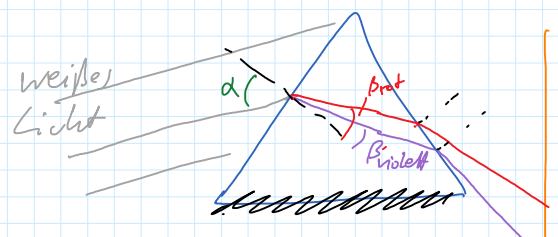


Fig. 8.6

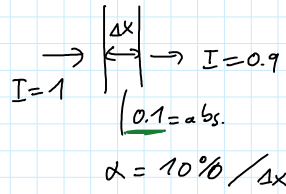
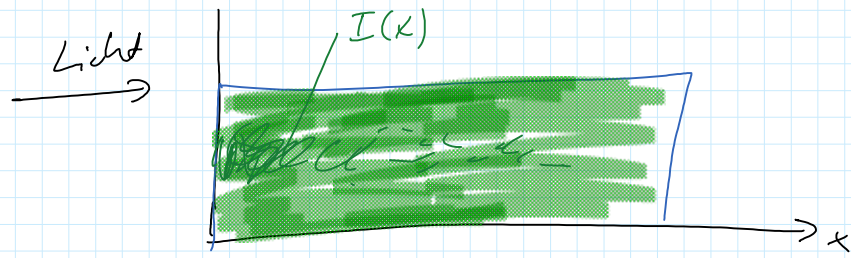
$c_{\text{medium}} = \frac{c_0}{n}$
 Brechungsindex

violett wird stärker abgelenkt
 weil $c_{\text{violett}} < c_{\text{rot}}$
 $n_{\text{violett}} > n_{\text{rot}}$

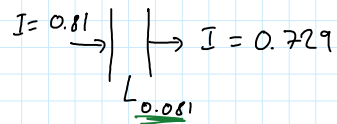
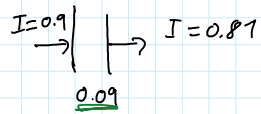
Absorptionskurve : $I(x) = I_0 \cdot e^{-dx}$

$n = 1,0$ Vakuum
 $= 1,0001$ Luft

α · Absorptionskoeffizient = 1,5 Glas



$$dI = -\alpha I dx$$



$$\rightarrow \left| \begin{array}{c} \Delta x \\ \hline \end{array} \right. \rightarrow 0.9 \times I_{in}$$

① absorbierende Filme

$$\begin{array}{l} I_1 = 2,8 \\ I_2 = 1,6 \\ I_3 = 1,0 \\ I_4 = 0,7 \end{array} \quad \left. \begin{array}{l} \downarrow \\ \downarrow \\ \downarrow \\ \downarrow \end{array} \right\} \begin{array}{l} \Delta = 1,2 \\ \Delta = 0,6 \\ \Delta = 0,3 \end{array}$$

