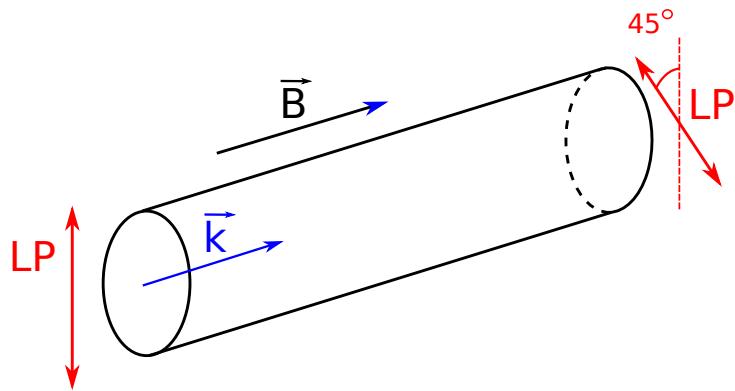


1 Faradayův jev

$$\begin{aligned}
 \vec{D} &= \epsilon_0 \epsilon_r \vec{E} + i\epsilon_0 \gamma \vec{B} \times \vec{E} \\
 \vec{B} &= (0; 0; B) \\
 \vec{E} &= (E_0; \pm iE_0; 0) \\
 \vec{D} &= \epsilon_0 \epsilon_r (E_0; \pm iE_0; 0) + i\epsilon_0 \gamma (\mp iBE_0; BE_0; 0) = \epsilon_0 \epsilon_r (E_0; \pm iE_0; 0) + \epsilon_0 \gamma B (\pm E_0; iE_0; 0) = \\
 &= \epsilon_0 \epsilon_r (E_0; \pm iE_0; 0) \pm \epsilon_0 \gamma B (E_0; \pm iE_0; 0) = \epsilon_0 (\epsilon_r \pm \gamma B) (E_0; \pm iE_0; 0) = \\
 &= \epsilon_0 (\epsilon_r \pm \gamma B) \vec{E} \\
 n^2 &= \epsilon_r \pm \gamma B \\
 n &\approx n_0 \pm \frac{\gamma B}{2n_0}
 \end{aligned}$$



2 Optická aktivita

