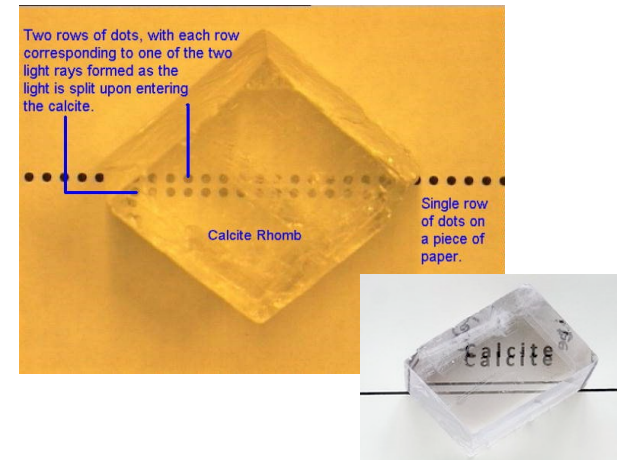


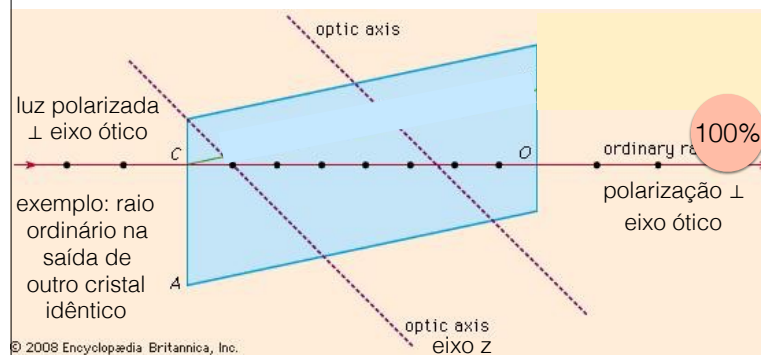
Mecânica Quântica PG

- Prof. Paulo A. Maia Neto
- Instituto de Física UFRJ

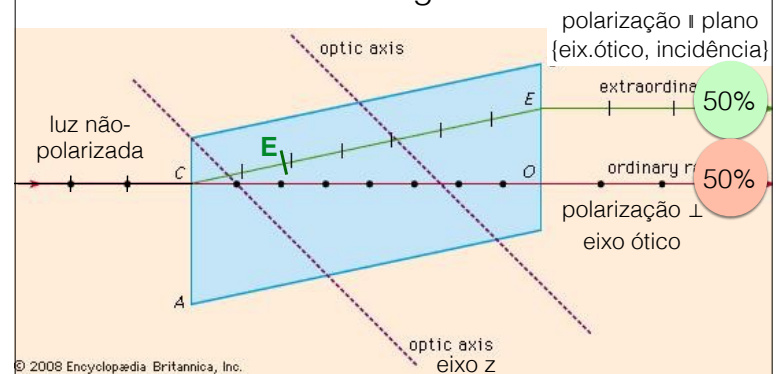
Aula 1 - Birrefringência



Birrefringência: filtro de polarização



Birrefringência



Cristal **anisotrópico** uni-axial: **tensor** susceptibilidade elétrica ϵ

$$\mathbf{D} = \epsilon \mathbf{E} \quad \epsilon = \begin{pmatrix} \epsilon_{\perp} & 0 & 0 \\ 0 & \epsilon_{\perp} & 0 \\ 0 & 0 & \epsilon_{\parallel} \end{pmatrix} \quad \text{Calcita: } \frac{\epsilon_{\perp}}{\epsilon_{\parallel}} = \left(\frac{1.658}{1.486}\right)^2$$

