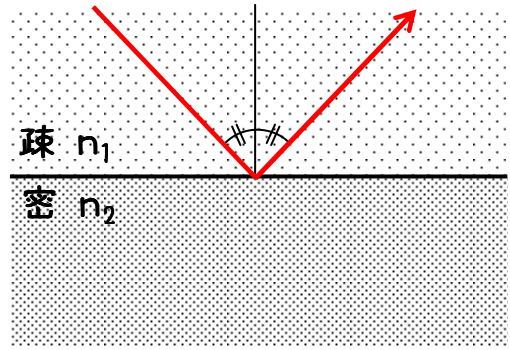
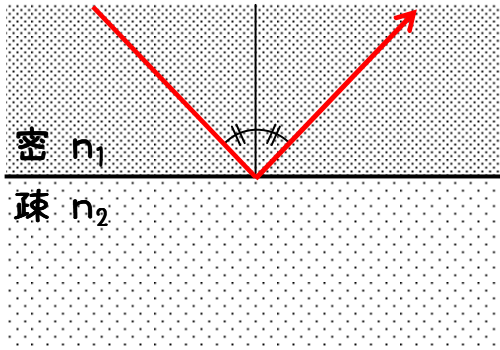
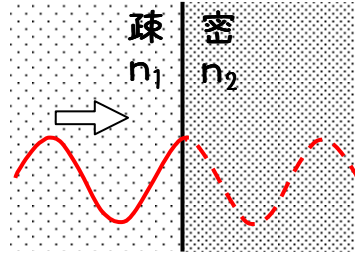
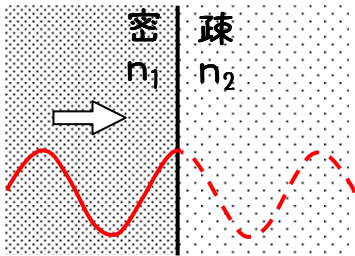


光の反射と位相

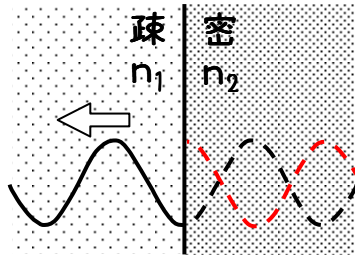
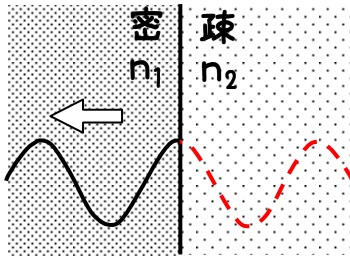


$n_1 > n_2$ の時
自由端の反射 = 位相はずれない

$n_1 < n_2$ の時
固定端の反射 = 位相が π ずれる



$\frac{\lambda}{2}$



$n_1 > n_2$

$n_1 < n_2$

干渉(位相のずれのない時、自由端の反射の時)

$$\begin{cases} \text{光路差} = (2m+1) \cdot \frac{\lambda}{2} & \rightarrow \text{暗} \\ \text{光路差} = 2m \cdot \frac{\lambda}{2} = m\lambda & \rightarrow \text{明} \end{cases}$$

ただし、 $m=1,2,3 \dots$