θ_1 θ_r

n_1

$n_2 > n_1$

θ_2

$$\alpha_1$$

$$\theta_1$$

$$A'$$

$$v_1 \Delta t$$

$$\theta_1$$

$$\theta_1$$

$$A$$

$$\theta_2$$

$$\theta_2$$

$$B'$$

$$v_2 \Delta t$$

$$\theta_2$$

$$\theta_2$$

$$B$$

n_2

$n_1 > n_2$

θ_2

θ_1

θ_r

n_2

$n_1 > n_2$

θ_2

θ_1

θ_r

θ_1 θ_r n_1

$n_2 > n_1$

θ_2

air ($n_1 = 1$)

glass ($n_2 = 1.5$)

γ

δ