Sini =
$$n \sin r = 3 \sin i = \frac{\sin i}{n}$$

 $r = arc \sin \left(\frac{\sin i}{n}\right) = 32,6^{\circ}$

3)
$$n_1 = 1$$
 $n_2 = 1,564$ $i = i_5$ $r_B = 32,6°$

$$t_{11} = 0,580$$
 $t_{11} = 0,639$

4)
$$n_1 = 1.564$$
 $n_2 = 1$
 $i = r_0 = 32.6^{\circ}$ $r = i_3$
 $t_{21} = 1.419$ $t_{21} = 1.564$

3)

< = < 5

$$N_{1} = 1$$

$$N_{2} = N$$

$$i = iB$$

$$N_{1} = N$$

$$N_{2} = 1$$

i= PB Y = LB

$$\frac{E_{\perp}^{2}}{E_{\perp}^{\circ}} = t_{1} \times t_{1} = 0.823$$

$$\frac{E_{11}^{2}}{E_{11}^{2}} = t_{11} \times t_{21} = 0.339$$

$$t_1 \times t_2 \times t_1 \times t_1 = (t_1 \times t_2)^2$$

$$\frac{E_{\perp}^{3}}{E_{\perp}^{\circ}} = \left(\frac{E_{\perp}^{1}}{E_{\perp}^{\circ}}\right)^{2} = 0.68 \qquad \frac{E_{\parallel}^{3}}{E_{\parallel}^{\circ}} = \left(\frac{E_{\parallel}^{2}}{E_{\parallel}^{\circ}}\right)^{2} = 0.99$$