

$$\frac{\partial}{\partial s} = \frac{\partial}{\partial s}$$

$$\frac{\sin(\theta_1)}{\sin(\theta_2)} = \frac{\pi}{\ln}$$

a) 
$$\Theta_e$$
,  $\theta_f$ ,  $\theta_{+}$ ?

$$sin(\theta_1) = sin(\theta_1) \cdot 1,6$$

$$\theta_b = \theta = \alpha \cot \left(\frac{n_1}{n_1}\right) = 77,994^\circ = \theta_v$$

$$\theta_{t} = \operatorname{oucsin}\left(\frac{\sin \theta_{i}}{1.6}\right) = 32^{\circ}$$

$$A = \frac{1}{4} \frac{1}{5} \frac{1}{5} \cdot 2 \cdot \sqrt{\frac{A}{17}} \quad b_{\uparrow} = \frac{1}{4} \pi 2 \sqrt{\frac{A}{17}} \cdot 2 \sqrt{\frac{A}{17}} \cdot \frac{\cos(\theta_{\uparrow})}{\cos(\theta_{\downarrow})}$$

$$s \wedge \frac{\cos(\theta_1)}{\cos(\theta_1)} = 4,8 \text{ mm}^2$$

$$T_{TM} = \frac{n^2 \cos(\theta_1) - \sqrt{n^2 - \sin^2(\theta_1)}}{n^2 \cos(\theta_1) + \sqrt{n^2 - \sin^2(\theta_1)}} = \frac{1/6^2 \cdot \cos(58) - \sqrt{1/6^2 - \sin^2(58)}}{1/6^2 \cdot \cos(58) + \sqrt{1/6^2 - \sin^2(58)}} \approx 0 = T_{TM}$$

$$= \frac{11.6^{2} \cdot 401(18) - 11.6^{2} - 510^{2}(58^{\circ})}{11.6^{2} \cdot 401(58^{\circ}) + 11.6^{2} - 510^{2}(58^{\circ})}$$

17m wenn Brewster = 0

$$\frac{2 n \cos \theta_1}{1 m^3 n^2 \cos \theta_0 + \sqrt{n^2 - \sin^2(\theta_0)}} = \frac{0,624}{0,624}$$

