



$$d \sin \alpha = \frac{k \lambda}{n} \Rightarrow \text{1. Maximum} \quad d = \frac{\lambda}{n \sin \alpha}$$

$$NA = n \sin \alpha$$

Für  $f \gg r$   $\sin(\alpha) \approx \tan(\alpha')$

$$\text{Da } n \approx 1 \Rightarrow NA = \frac{r}{f}$$