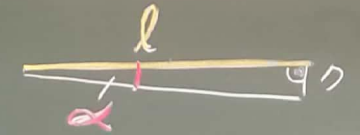




- 2. O.
- 1. Ordnung
- 0. Ordnung
- 1. "
- 2. "
- 3. "

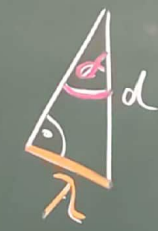
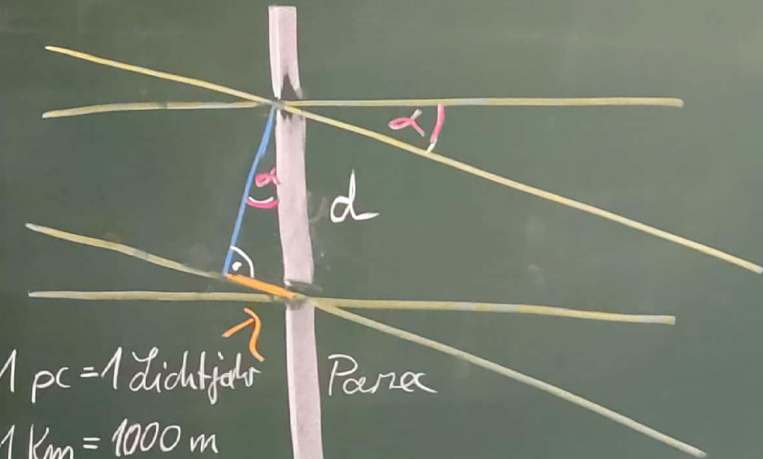


$s = \text{Streifenabstand}$

Berechnung

Gegenkath. = $\tan \alpha$ $\frac{s}{l} = \tan \alpha$ $\alpha = \tan^{-1} \frac{s}{l}$

Ankath.



Gegenkath. = $\sin \alpha$ $\frac{\lambda}{d} = \sin \alpha \cdot d$

Kepp.

$\lambda = d \cdot \sin \alpha$

- 1 pc = 1 Lichtjahr Parsec
- 1 km = 1000 m
- 1 m = 1000 mm Millimeter
- 1 mm = 1000 μm Mikrometer
- 1 μm = 1000 nm Nanometer
- 1 nm = 1000 pm Picometer
- 1 pm = 1000 fm Femtometer

$d = \text{Abstand der L\"ocher} = \text{Hypotenuse}$

$\lambda = \text{Wegunterschied} = \text{Gegenk.}$

$\alpha = \tan^{-1} \frac{10}{5150} = 0,11$

$\lambda = 0,27 \cdot \sin 0,11 = 5,18 \cdot 10^{-4} = 0,000518 \text{ mm}$

$= 0,518 \mu\text{m} = 518 \text{ nm}$

Name	s in mm	in μm	in m	α in $^\circ$	λ in nm
D/T	3	2,100	0,5	0,8785	$7,142 \times 10^{-4}$

Name	s in mm	l in mm	d in mm	α in °	λ in nm
DAT	3	2100	0,5	0,08785	714
Dr.	10	5150	0,27	0,11	518
S	3	810	0,113	0,212	418
MoMo	2	1750	0,1681	0,10654	778