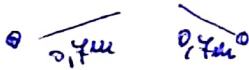
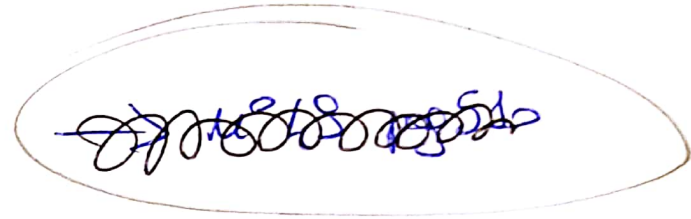


- DIFFRAZIONE

$$\text{sen } \theta = \frac{\lambda}{D}$$

$$\text{sen } \theta = 1,22 \frac{\lambda}{D}$$

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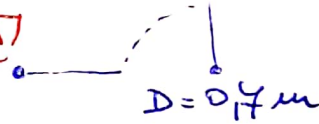


$$f = 607 \text{ Hz}$$
$$v = 343 \frac{\text{m}}{\text{s}}$$

$$\lambda = \frac{v}{f} = \frac{343 \frac{\text{m}}{\text{s}}}{607 \text{ Hz}} = 0,565 \text{ m}$$

1 PORTA APERTA

① $\theta = ?$



$$\text{sen } \theta = \frac{\lambda}{D} = \frac{0,565 \text{ m}}{0,7 \text{ m}} = 0,8072$$

$$\theta = 53,83^\circ$$

2 PORTE APERTE

② θ $D = 1,4 \text{ m}$

$$\text{sen } \theta = \frac{\lambda}{2D} = \frac{0,565 \text{ m}}{1,4 \text{ m}} = 0,4036$$

$$\theta = 24,80^\circ$$