I11NEWTONS **Newton's rings**

Path difference d=(R -SQ(R^2-r^2))
R is radius of curvature of the lens in mm
r is the distance from the center in mm

$r := 0, 0.01 .. 4 \qquad R := 2000 \qquad \lambda := .0005$

$$d(r) := R - \sqrt{R^2 - r^2}$$

$$INT(r) := \cos\left(2 \cdot \pi \cdot \frac{d(r)}{\lambda}\right)^2 \qquad INR(r) := \cos\left(2 \cdot \pi \cdot \frac{d(r)}{\lambda} + \frac{\pi}{2}\right)^2$$