I6LOYDS

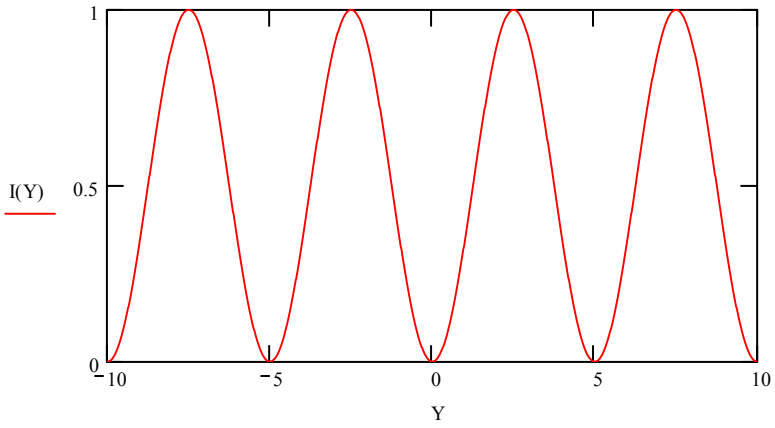
Lloyd's mirror experiment

$Con := 1$

$Y := -10, -9.99 .. 10$

All length in mm $\quad a \equiv .4 \quad X \equiv 4000$

$$I(Y) := Con \cdot \cos\left(\pi \cdot \frac{Y \cdot a}{\lambda \cdot X} + \frac{\pi}{2}\right)^2 \qquad \lambda \equiv .0005$$



We see that at Y=0 Young's experiment has a maximum, Lloyd's a minimum.
For Young and Lloyd: The position of maxima are changed by changing d and λ, X is considered fixed.