

Formulas:

$$\Delta E = \Delta mc^2$$

$$d \sin \theta = m\lambda$$

$$x_m \approx \frac{m\lambda L}{d}$$

c = speed of light ($3 \times 10^8 \text{ m/s}$)

d = slit separation

E = energy

L = distance to screen

m = an integer order

x = position

λ = wavelength

θ = angle