### Bragg's law in X rays

Intensity is maximum only when path difference between two successive rays is numerically equal to integral multiple of incident wavelength

### Magnitude of order of diffraction slit in Bragg's law

0.1 nm

### Expression for Bragg's law in X ray

$$2d \sin \theta = n\lambda$$

### Expression for glancing angle in Bragg's law in X ray

$$\theta = \sin^{-1}(\frac{n\lambda}{2d})$$

### Expression for lattice space in Bragg's law in X ray

$$d = \frac{n\lambda}{2 \sin \theta}$$

### Expression for first order glancing angle in Bragg's law

$$\theta_1 = \sin^{-1}(\frac{\lambda}{2d})$$

### Expression for second order glancing angle in Bragg's law

$$\theta_2 = \sin^{-1}(\frac{\lambda}{d})$$