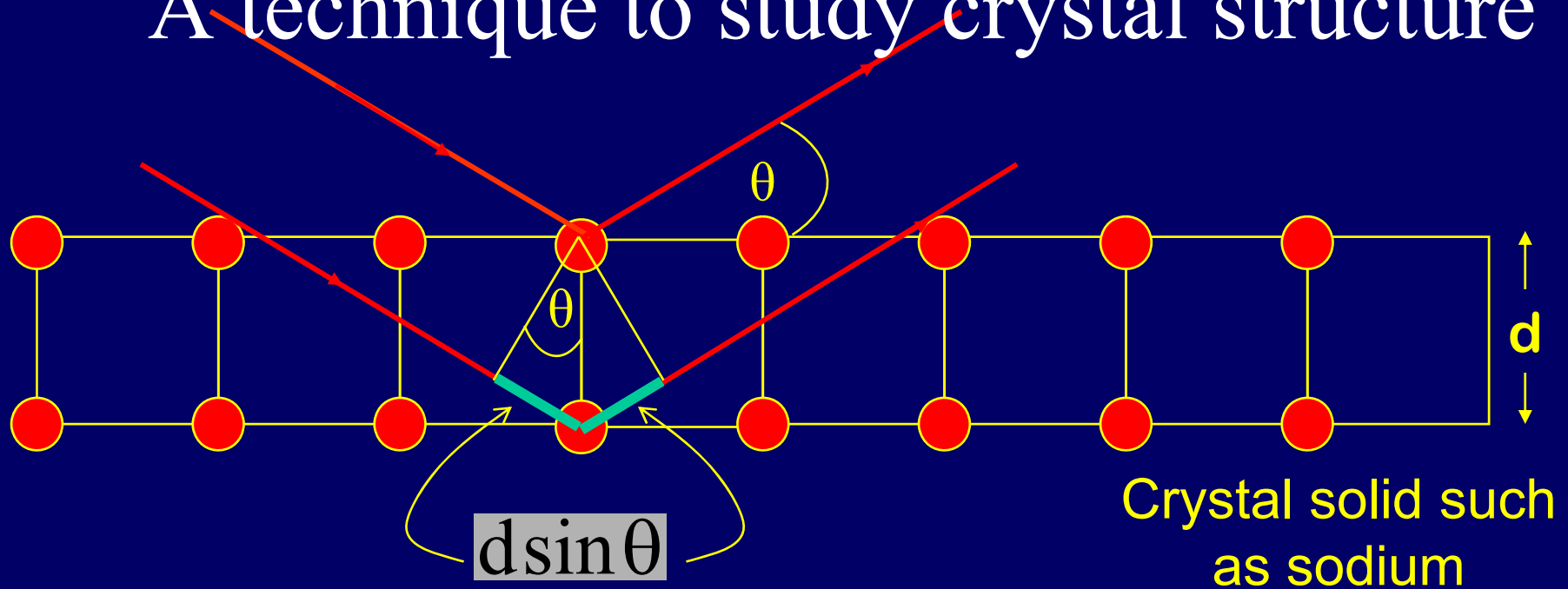


X-Ray Diffraction:

A technique to study crystal structure



Constructive interference:

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

$d \approx 0.5 \text{ nm}$ in NaCl

For $\lambda = 0.017 \text{ nm}$

X-ray

1st maximum will be at 10°

Measure θ , determine d