



Inline Holography – Lensless Imaging

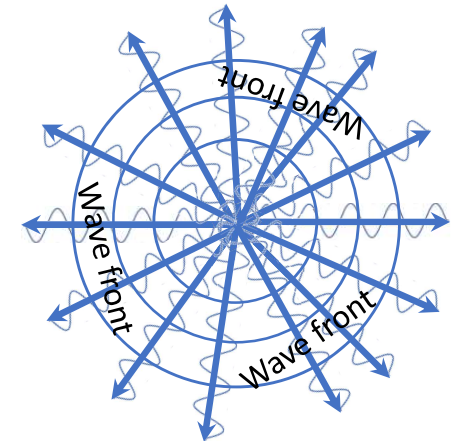
Interference and Diffraction cannot be explained using Ray Optics

Wave Optics describes light as an electromagnetic wave

Light ray

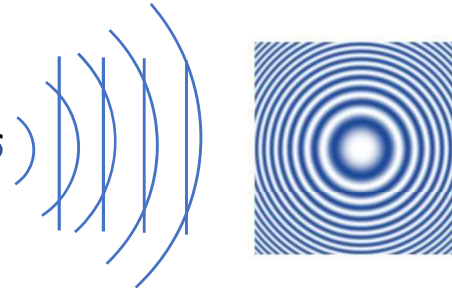


Spherical wave propagates from a point light source.

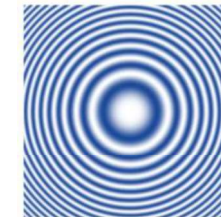


Far away from the light source the spherical waves look like plane waves.

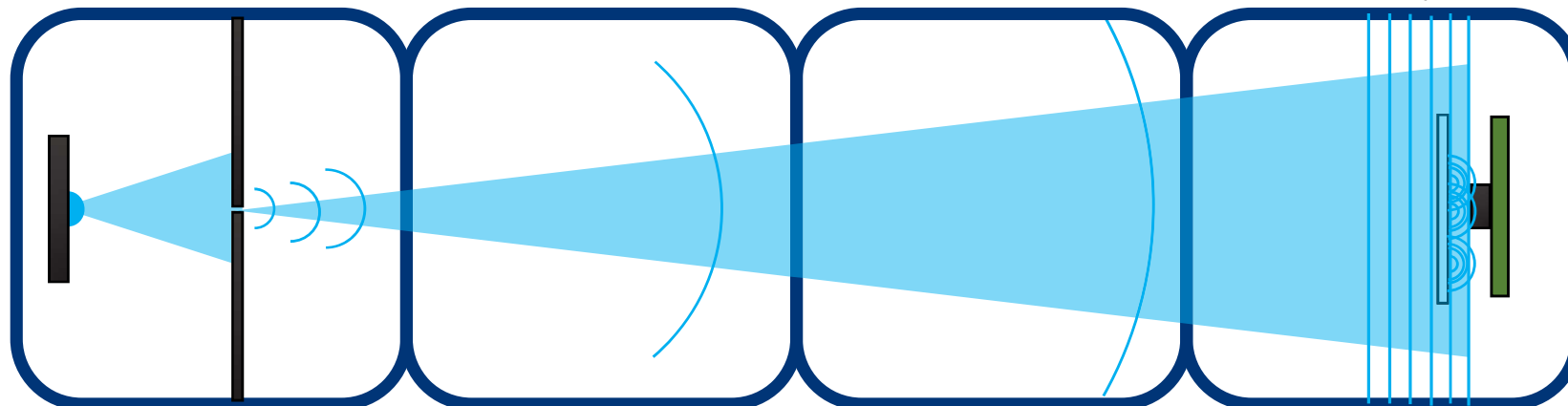
Interference – when the waves meet each other



Hologram of a point-like object



LED Pinhole



Hologram of
Diatoms?

