

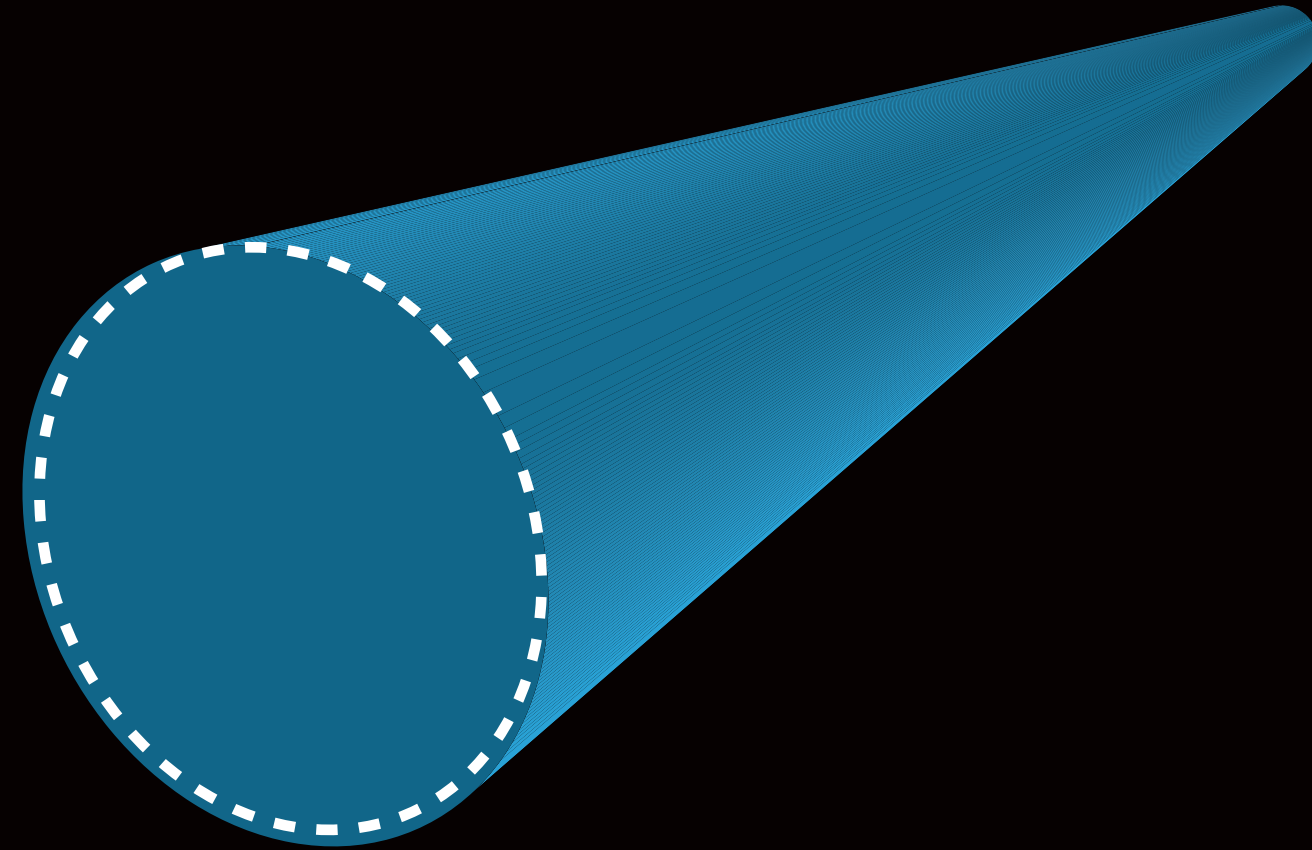


Outline

- Introduction to Brillouin Scattering
- Mechanical modes
- ➔ • Optical modes
- Harnessing Brillouin interaction
- Optomechanical cavities
- Final remarks

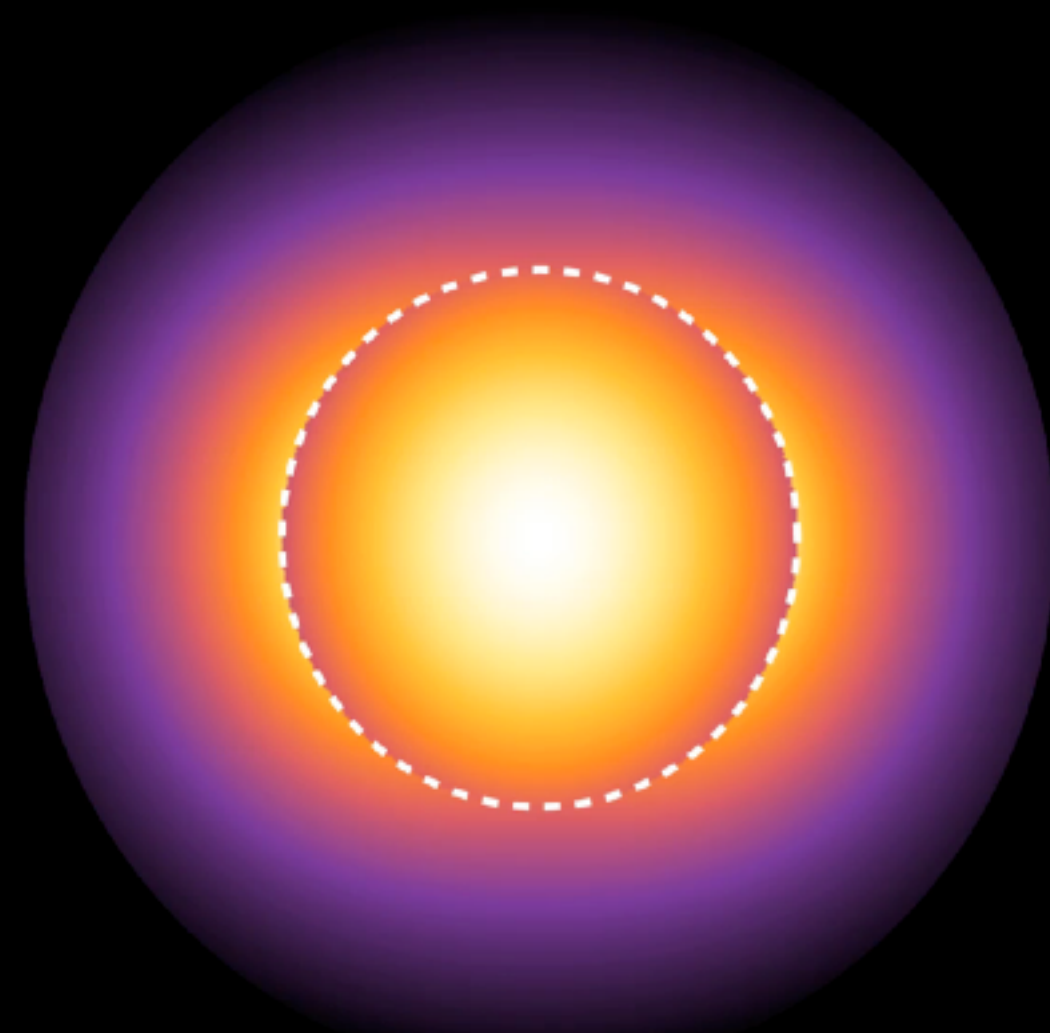


Sub-wavelength confinement



$$n_{\text{Si}} \approx 3.5$$

$$n_{\text{SiO}_2} \approx 1.45$$



Electric field amplitude
HE_{11x} mode

