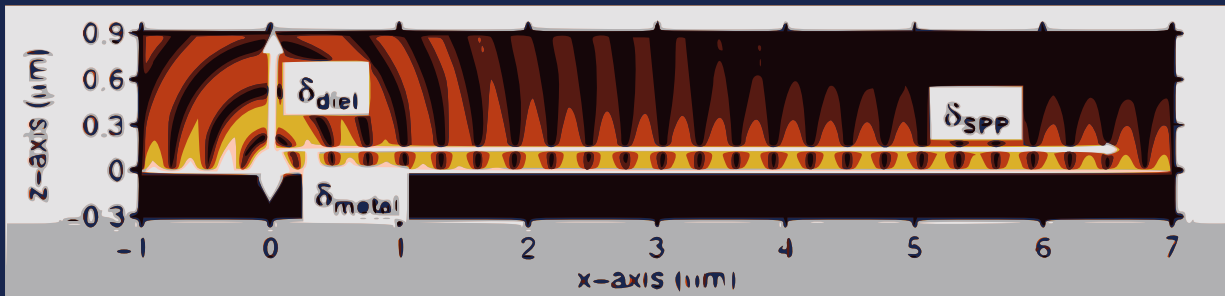


LSP

Shrinking the size of SPR interface



Metal surface, SPP



Silver Nanoparticle, LSP

LSPR!

- Lateral dimension of the interface $\ll \delta_{SPP}$
- Resonance condition in LSPR:
- Frequency of incident light = Surface Plasmon Frequency
- No traveling wave
- Large increase in electromagnetic field
- δ_{diel} in SPP $\gg \delta_{diel}$ in LSPR

