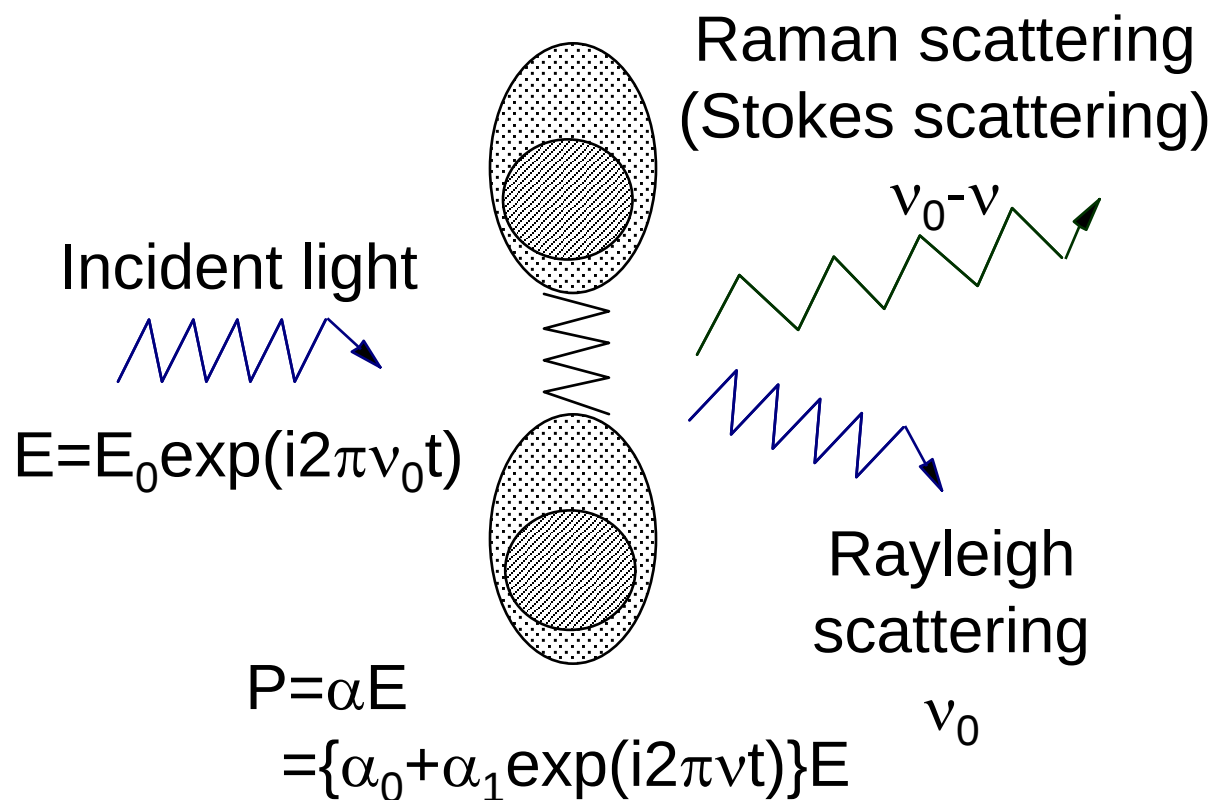


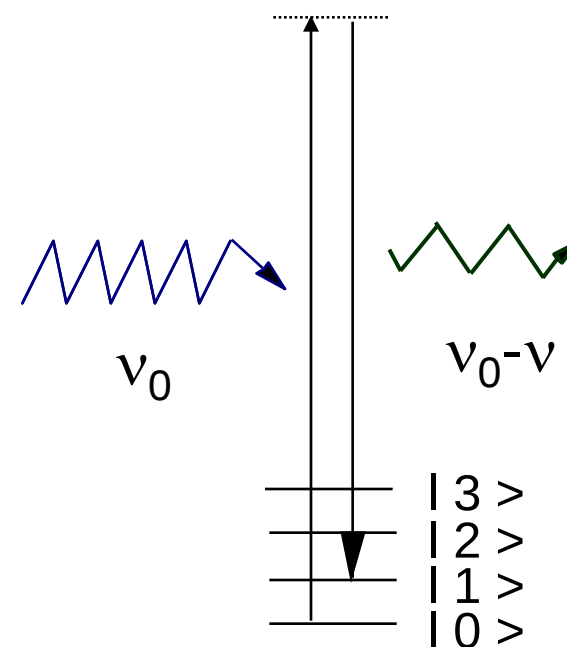
Raman effect

Raman scattering is the inelastic scattering of light.

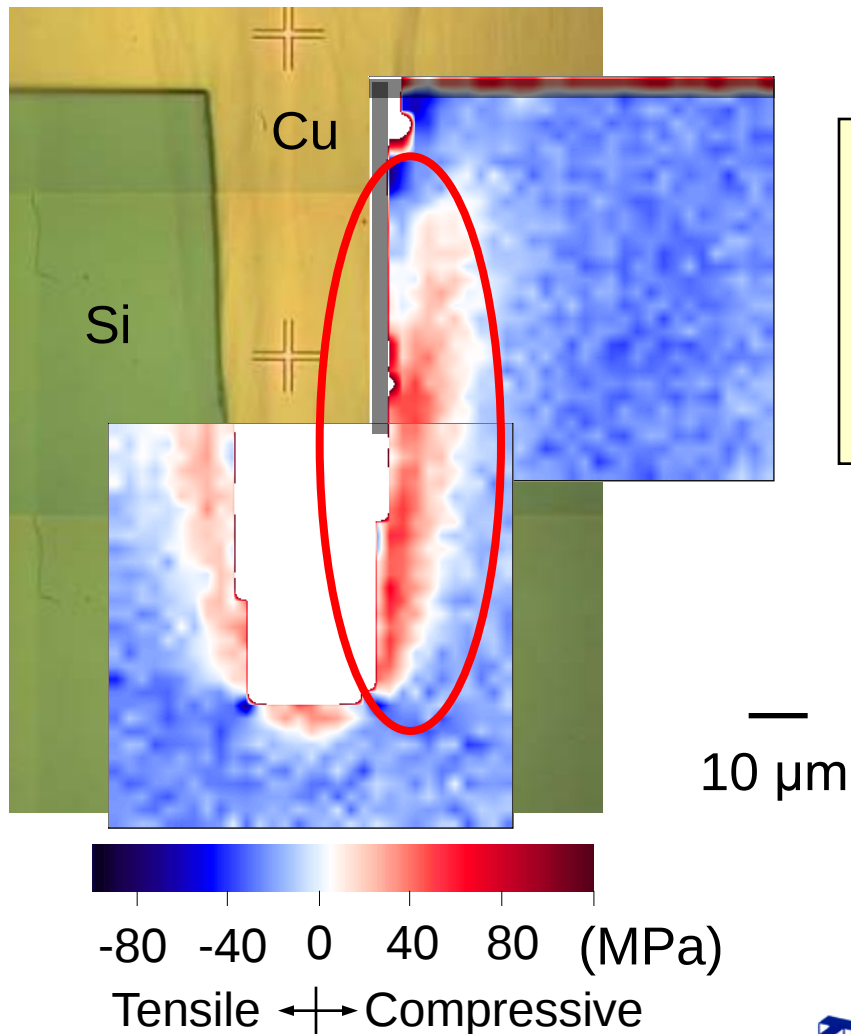
Classical dynamics



Quantum theory



Stress evaluation of TSVs by Raman spectroscopy¹⁾



- Compressive stress is observed along the side wall of the via (marked at open red circle).
- Other area has tensile stress.

1) J. Appl. Phys. 114, 233503 (2013).