## Abipy/lumi/lineshape.py

## Lineshape (multi-phonon)

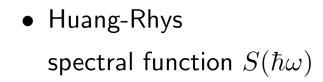
- $\bullet$   $E_{\mathrm{ZPL}}$
- $\Delta R_{\kappa\alpha}$  or  $\Delta F_{\kappa\alpha}$  (obtained from  $\Delta$ SCF post-process block)

 $\Gamma$  q-point phonons  $(\omega_{\nu}, \mathbf{e}_{\kappa,\nu})$  (from embedded IFCs block or not)

Semi-automatic
structure mapping

phonopy

object



- Phonon mode localization
- Temperature dependent PL spectra following generating function

