## Abipy/lumi/lineshape.py

## Lineshape (multi-phonon)

•  $E_{\mathrm{ZPL}}$ 



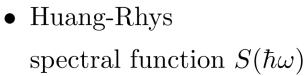
phonopy

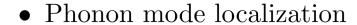
object

(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





• Temperature dependent PL spectra following generating function

