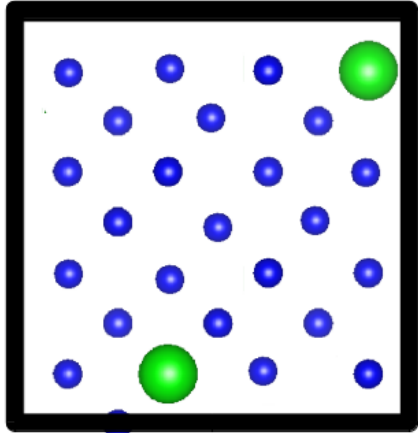
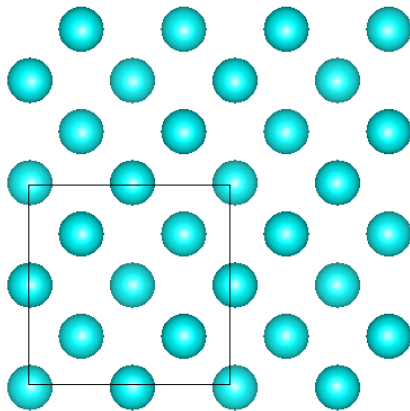
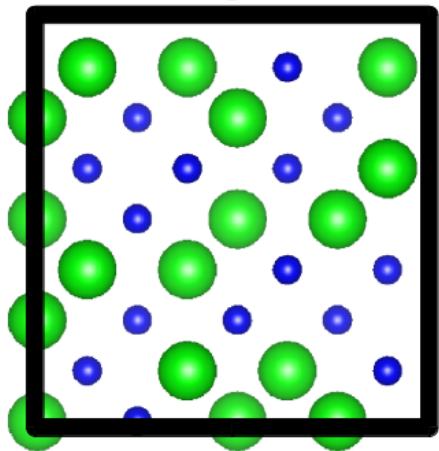
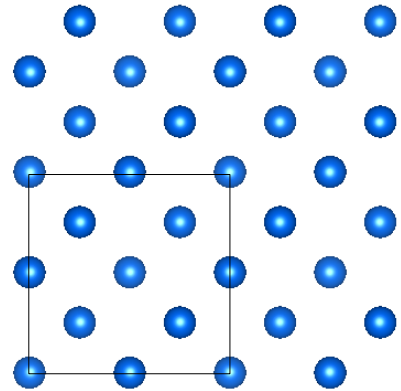


Explicit disorder: VC vs Gamma

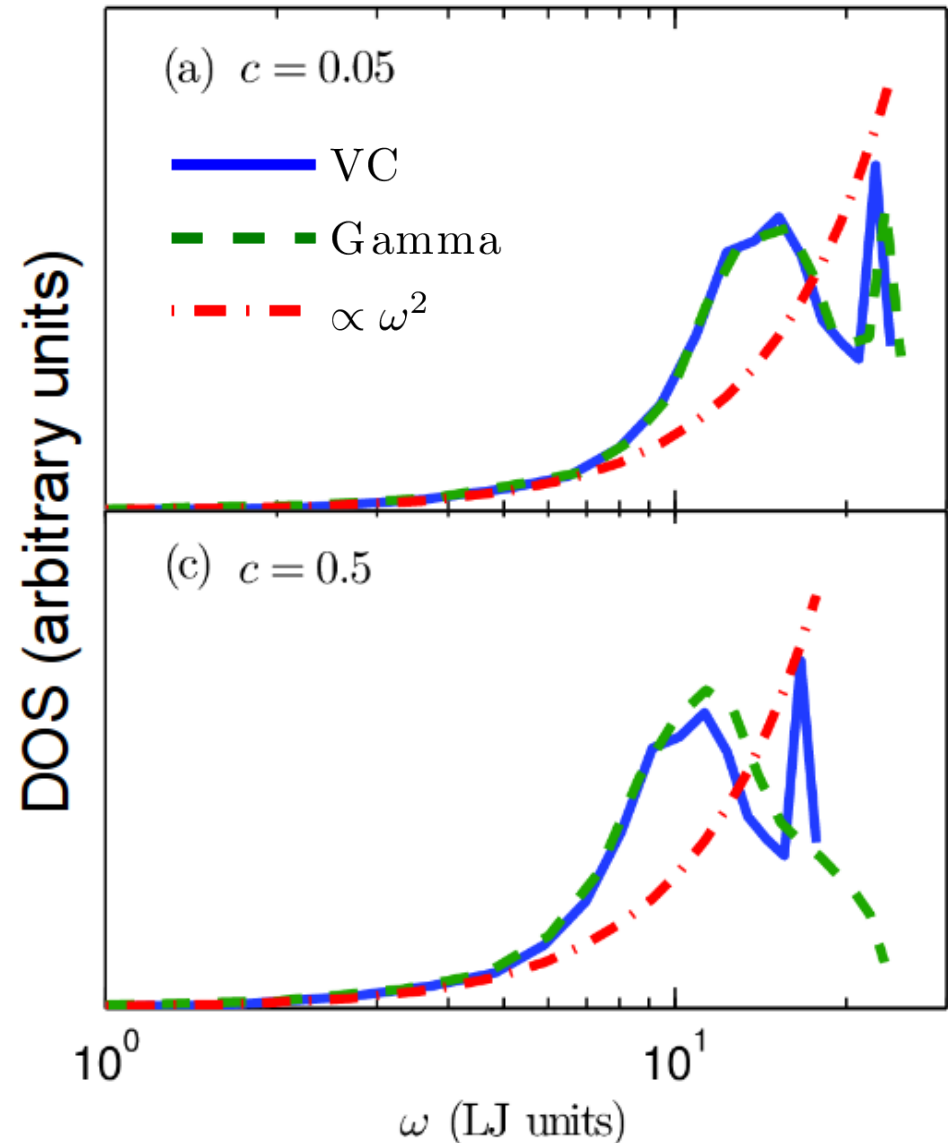
- Gamma



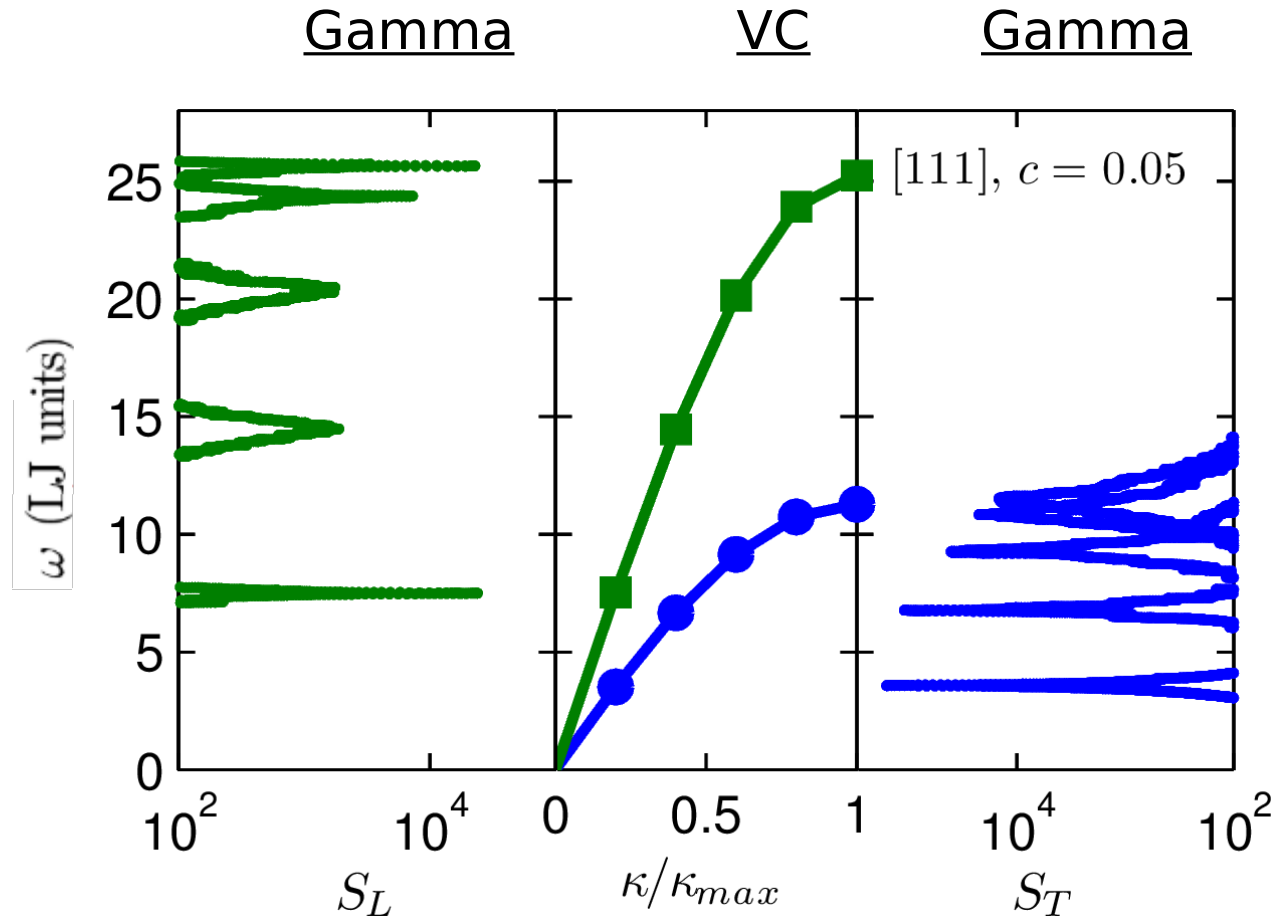
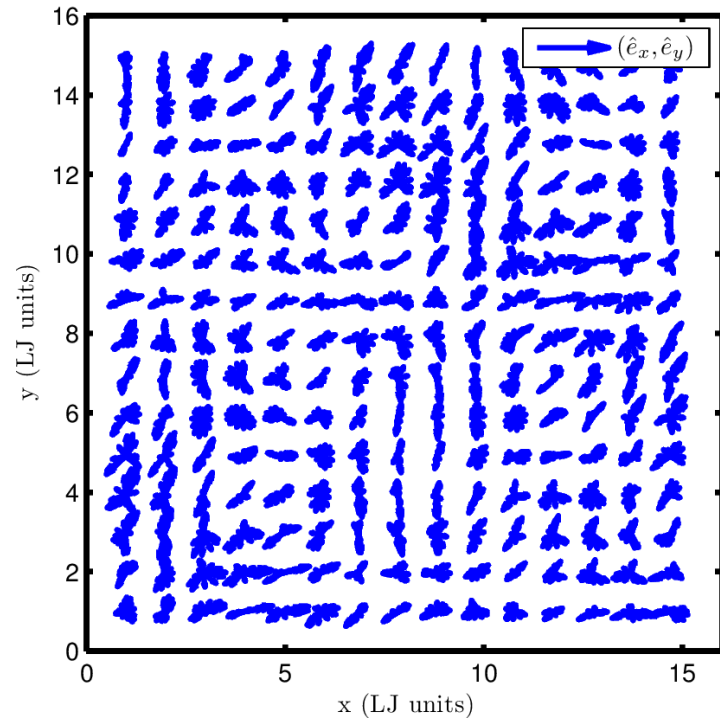
- VC



LJ Argon Alloys



Explicit disorder: Structure Factor




HS/IR Limit

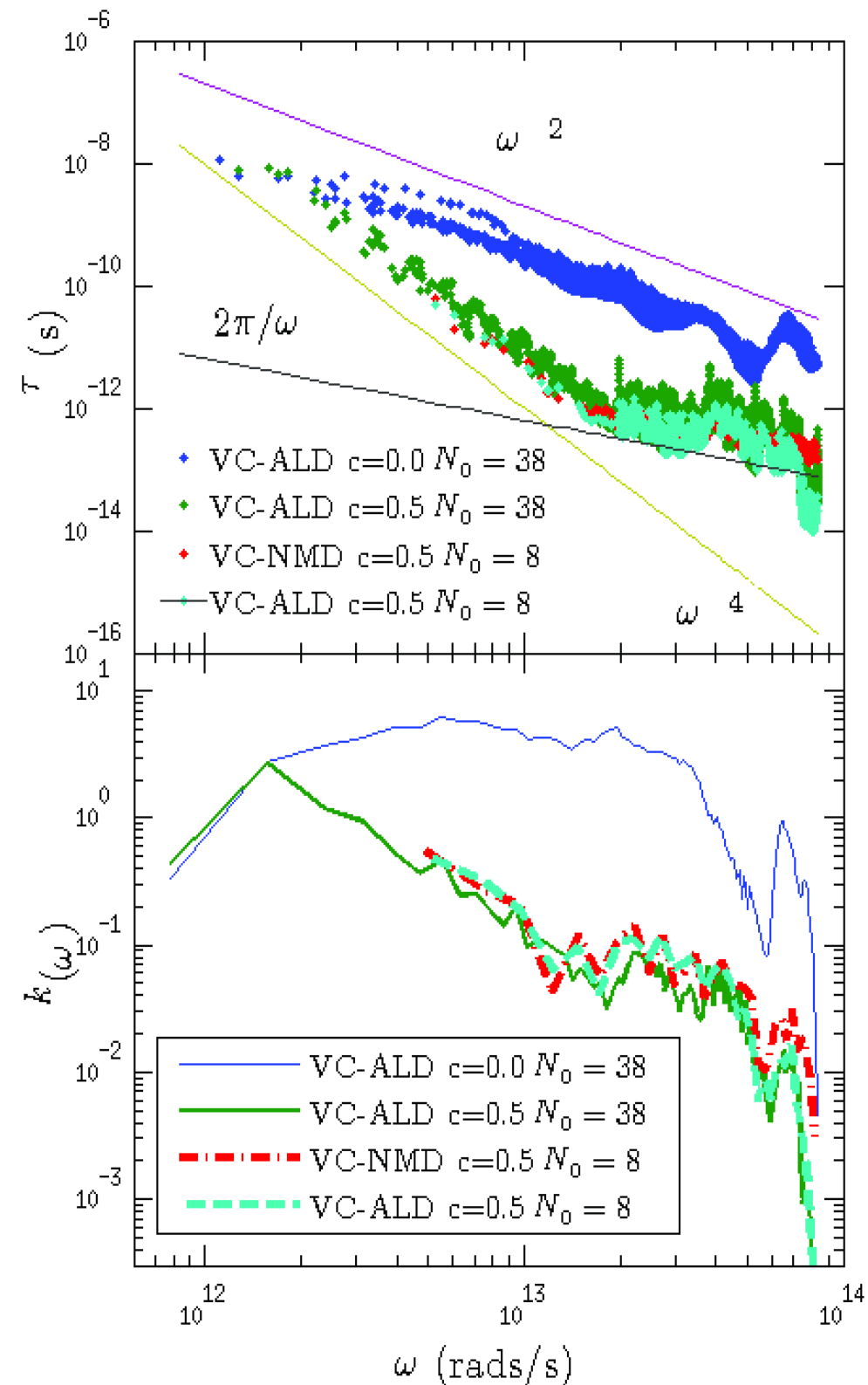
$$D_{IR} = \frac{2\pi}{3} \frac{v_s^2}{\omega}$$

P. Sheng and M. Zhou, Science 253, 539542 (1991)

Thermal conductivity: SW silicon alloy

amor-Si — 

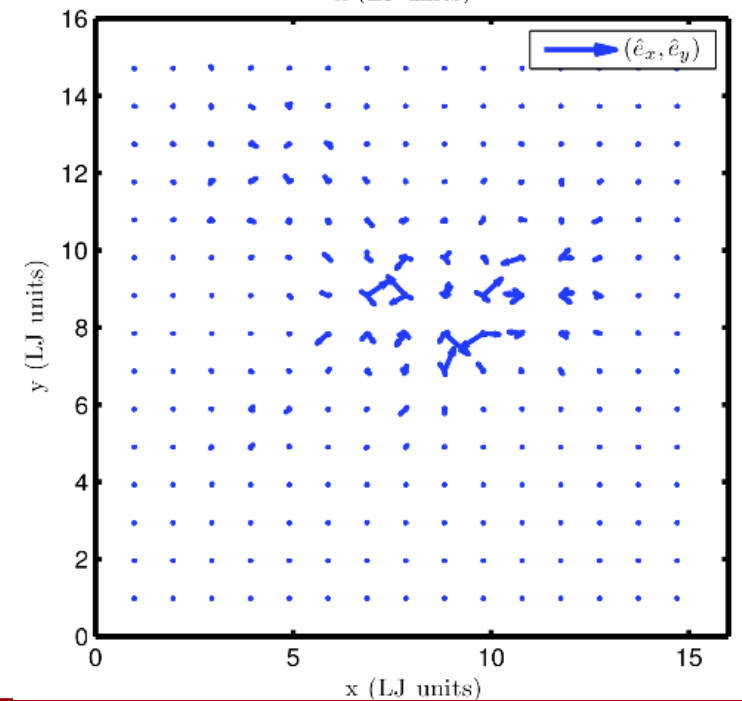
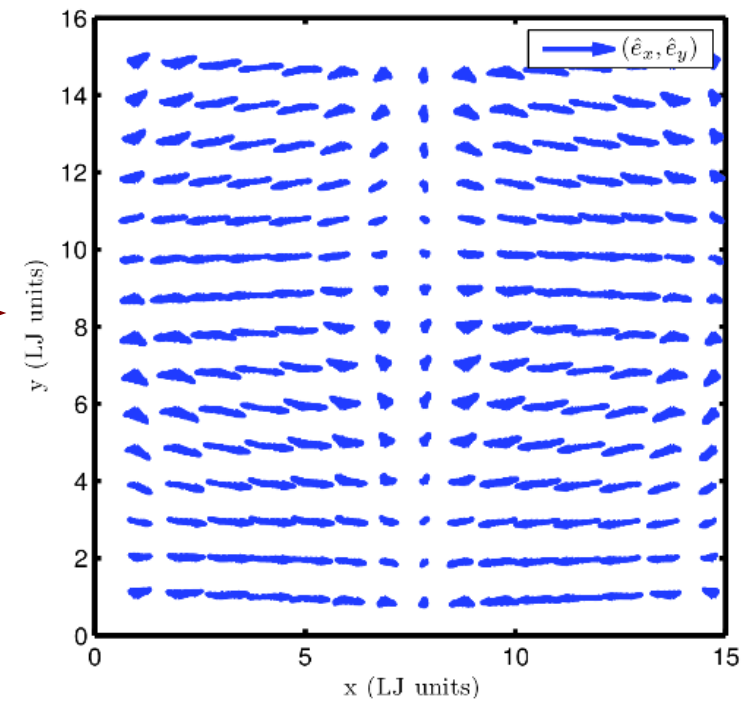
Phonon Spectrum: SW Si



Gamma modes

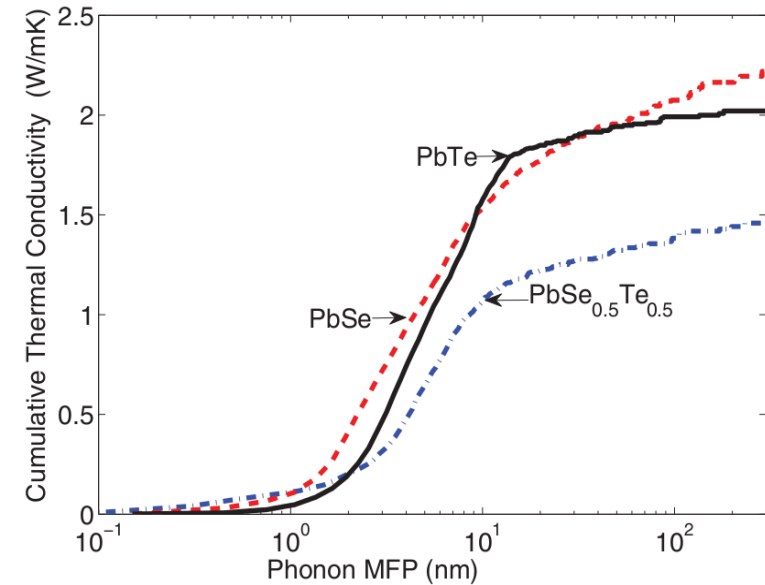
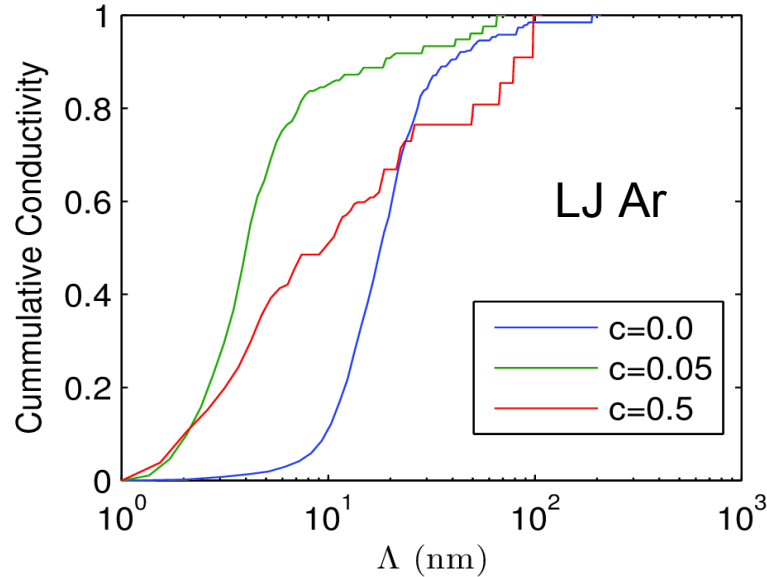
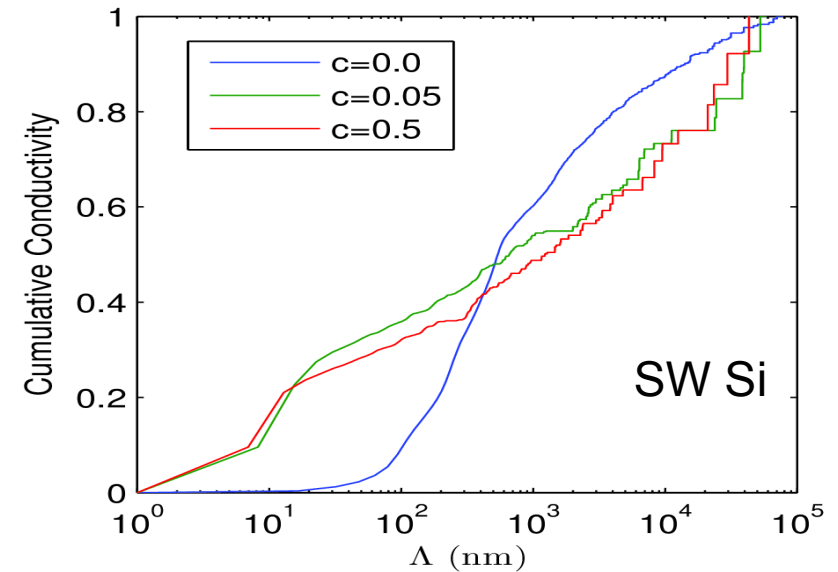
$$e(\kappa=0 \begin{smallmatrix} b \\ \nu \\ \alpha \end{smallmatrix})$$

DOS (arbitrary units)



NMD using VC modes

Conductivity Accumulation



PHYSICAL REVIEW B 85, 184303 (2012)