Electronic Density of States for Incommensurate 2D Layers

Daniel Massatt, Mitchell Luskin, Christoph Ortner

- Tight-binding model.
- Localized orbitals.
- Discrete Hamiltonian.

Thermodynamic limit:
\[ \lim_{n \to \infty} \frac{1}{n} \text{Tr}[g(\tilde{H}_n)] \]

LDoS: \([g(\tilde{H}_n)]_{kk}\).

Approximate LDoS with a Kernel Polynomial Method.

Integrate over relative shifts.