Objective:
Implement general mesh that uses density information to improve Poisson convergence and simulation efficiency

Problem:
For scattering simulations, contact band structure information to create an accurate energy/k-mesh.

Approach:
• Initial mesh from adaptive grid that uses
• Find resonances in density of states and increase mesh density around those resonances

Results/Impact:
• Improve convergence for scattering simulations
• Lower number of k-points needed for UTB simulations by factor of 3

2x2x20 nm Si wire in effective mass