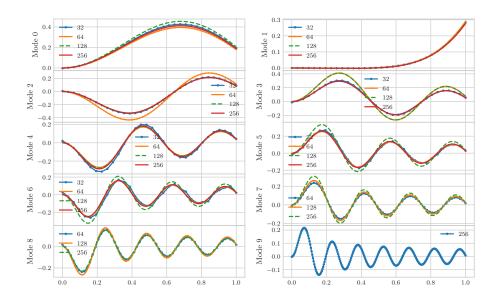
Daily Research Report

Jeffrey Severino University of Toledo Toledo, OH 43606 email: jseveri@rockets.utoledo.edu

May 11, 2022



1 Current Research Direction

Automate the post processing for the axial wavenumbers

2 Research Performed

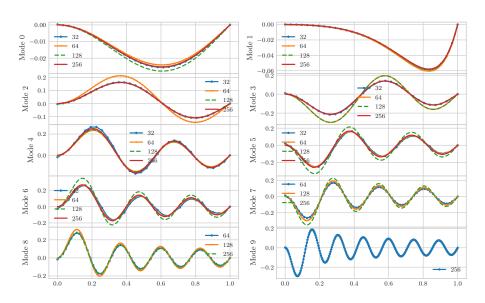
An algorithm was made to compare two numbers within a certain tolerance, however at very small grids (less than 64) it is difficult to get a comparison that has the two wavenumbers within 10e-3

3 Most recent subplots

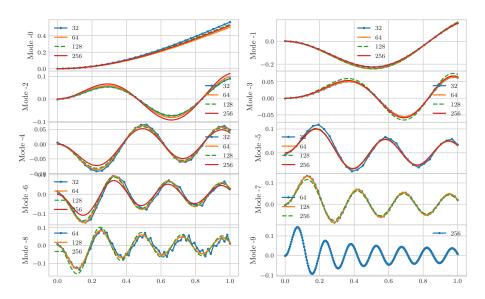
4 Planned Research

- Compute L2 of Shared grid points of the eigenvectors
- finish automatic wavenumber extraction
- Figure out why 4th order schemes isnt workin for 256 grid points

Propagating Modes [Imaginary]



Decaying Modes [Real]



Propagating Modes [Imaginary]

