3.17: MEEP: Waveguide Transmission

Why is there a sharp spike in the transmission spectrum for a holey waveguide with a defect?

A. It corresponds to the holey waveguide bands without defects
B. This corresponds to third harmonic generation from the input frequency
C. This corresponds to the resonant frequency of the index-guided waveguide
D. This is a numerical error

E. It corresponds to the defect resonant frequency within the photonic bandgap