PH 431 EM Capstone: Waveguide Project Groups

Your task is to describe and characterize waveguide modes. At the least, this should include equations and descriptions of the E and B fields in the waveguide and pictures, movies, models, or working devices to illustrate the mode. Also discuss the dispersion equation for the mode and present a graph.

Reference: Griffiths 9.5

**Group 1: TE_{10} Mode in Rectangular Waveguide**

Tyler Backman, Mark Blanding, Scott Clark

**Group 2: TE_{11} Mode in Rectangular Waveguide**

Abel Condrea, Scott Griffiths, Zachary Haines

**Group 3: TE_{20} Mode in Rectangular Waveguide**

Drew Haven, Ramsi Hawkins, Doug Jacobsen

**Group 4: TE_{21} Mode in Rectangular Waveguide**

Kimberly Johnson, Joseph Kinney, Casey Kliewer

**Group 5: TM_{11} Mode in Rectangular Waveguide**

Nicholas Kuhta, Ryan Lund, Patrick Waters

**Group 6: TM_{21} Mode in Rectangular Waveguide**

Elizabeth Nystrom, Jason Stephens, Ken Takahashi

**Group 7: TE_{10} Mode in Circular Waveguide**

Jeffrey Hazboun, Kenneth Lett, Timothy Murrel