

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.

Group 1: TE₁₀ Mode in Rectangular Waveguide

Steele, Zachery C.
Eggers, Megan M.
Abel, Mark J.
Gain, John P.

Group 2: TE₁₁ Mode in Rectangular Waveguide

Vanegas, Juan M.
Walker, Andrew C.
Jacobsen, Matthew K.
Dunn, Joanna M.

Group 3: TE₂₁ Mode in Rectangular Waveguide

Lounsbury, Jimson S.
Vaughn, Luke M.
Casperson, Robert J.
Korn, Abraham

Group 4: TE₂₀ Mode in Rectangular Waveguide

Toman, Luke J.
Augustson, Kyle C.
Kim, Ae
Horgan, Briony H.

Group 5: TM₁₁ Mode in Rectangular Waveguide

Evenson, Zachary J.
Young, Reed R.
Mellon, Joshua J.
Lane, Nicholas S.

Group 6: TM₂₁ Mode in Rectangular Waveguide

Brookhyser, James D.
Hevlin, Brian T.
Jones, Thomas R.
Schwab, Gary F.
Sajjad, Aqil

Group 7: TE₁₀, TE₁₁, TM₁₁ Modes in Circular Waveguide

Park, Heungman
Joshi, Pranav
Bhandary, Ashok