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Acoustic Resonance in School Hallways ELLIOT BUCKI¹, Lake Highlands High School in Dallas, MATTHEW NAGLE², Lake Highlands High School, PEARSON SMITH³, KEN TAYLOR⁴, Lake Highlands High School in Dallas — This paper takes the theory of acoustic standing waves for air columns and applies it to school hallways. By utilizing an audio generator and power amplifier/speaker the authors set up an experiment in a school hallway and studied the resonant patterns created for a range of driving frequencies. Data describing the various mode structures are presented.

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