

# *Talk Math 2 Me*

(A mathematics seminar for students and by students)

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Undergraduate Mathematics Major,

**Collin Peters** will speak on:

## **Experiencing the Wave Equation through Sound**

Friday November 10, 2023

DERR 240

12:00pm-1:30pm

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### **Abstract**

This talk hopes to inform on the theoretical equations and models that define a wave and how they apply to electronic and mechanical devices. The concept of partial differential equations will be introduced, and an example will be solved using the “Separation of Variables” method. This solution and its implications on the nature of the wave will be discussed and focus will be put on bridging mathematical model and natural observation. Audio and visual demonstrations of an oscillating circuit, wave modulation & amplification hope to encourage those unfamiliar with the mathematics of waves but interested in music to join.

For details about Talk Math 2 Me, email Ellen Couvillion ([ebr21@txstate.edu](mailto:ebr21@txstate.edu)) or visit:

