**Idaho State University
Physics Colloquium**

***Using Microwaves to Search For New Physics in Beta Decay***

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Electrons from radioactive decays within a magnetic field undergo cyclotron motion. This implies a small amount of radiation is emitted. The latter can be used to determine the energy of the electrons with high accuracy.

I will discuss our ongoing developments to measure the cyclotron radiation from 6He and 19Ne, and how we think this could lead us to the most sensitive probe of “chirality flipping”, a phenomenon predicted by many Beyond the Standard Model theories.

**Monday, April 19 2021**
**Via Zoom(**[**https://isu.zoom.us/j/85838325527**](https://isu.zoom.us/j/85838325527)**)
4:00 – 4:50 pm**