**Idaho State University  
Physics Colloquium**

**An Introduction to Accelerator Physics**  
  
[Dr. Themis Mastoridis](https://physics.calpoly.edu/node/203/)  
[California Polytechnic State University](https://physics.calpoly.edu/)

Modern particle accelerators have a broad range of significant applications in a number of scientific fields. In this talk, I will provide a summary of the necessary components for a particle accelerator. I will then describe the challenges in designing, operating, and optimizing the accelerating system. I will also present examples from my accelerator physics research and share my experiences from working at the Large Hadron Collider at the European Organization for Nuclear Research (CERN) in Geneva, Switzerland.

**Monday, November 29 2021  
Via Zoom(**<https://isu.zoom.us/j/86592973247>**)  
4:00 – 4:50 pm**