



# PHYSICS AND ASTRONOMY COLLOQUIUM

**Dr. Julie Hlavacek-Larrondo**

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**“New results about black hole feedback in galaxy clusters”**

## Abstract

“Clusters of galaxies are fantastic laboratories for understanding the physics of AGN feedback. They play a pivotal role in our understanding of jet-mode feedback by demonstrating that AGN-driven jets can inject profound amounts of energy into their surroundings via shock fronts, sound waves and turbulence, in addition to driving powerful molecular outflows and metals out of galaxies. In this talk, I will review the current state of this field with a particular emphasis on the evolution of such feedback over the last 10 billion years. I will also present new results on how machine learning can (and will) play a vital role in our understanding of the intracluster medium for the next decades.”

Wednesday, March 24, 2021

3:30 p.m.

via Zoom: <https://uvic.zoom.us/j/81377096640>