University of Victoria

PHYSICS AND ASTRONOMY SEMINAR
(In Person)

Dr. Prajval Shastri
Raman Research Institute

"Different Angles on Accreting Supermassive Black Holes"

Abstract

The fruits of using state-of-the-art technology in astrophysics research to unravel the unknown on a cosmic scale has meant that our understanding has leapt both wide and deep in more senses than one. In particular, the heftiest things we know, namely supermassive black holes, have emerged from being a mathematical construct a hundred years ago, to being understood as utterly common objects that inhabit every reasonably sized galaxy. Early evidence rested on the Sherlock-Holmes argument, but thanks to our wide and sharp eyes we have direct evidence for supermassive black holes today. In this talk I will review the phenomenology of accreting supermassive black holes and their jets. The understanding that has emerged from their systematics at multiple frequencies, combined with the results from computational simulations and connections with properties of their host galaxies and their evolution will be discussed.

Tuesday, September 12th, 2023
3:30 p.m. PDT
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