

Pacific Institute *for the*
Mathematical Sciences

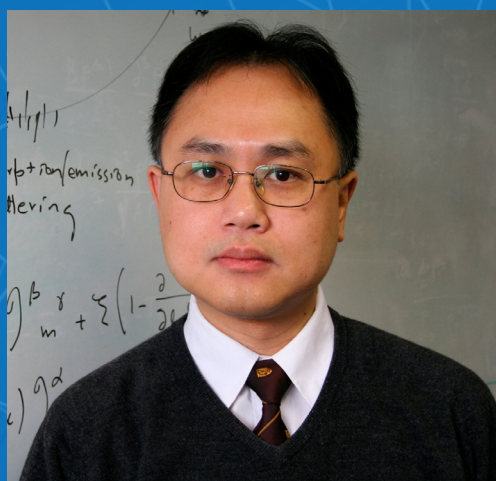
PIMS - PUBLIC LECTURE

KINWAH WU

Wednesday, July 10, 2019
07:30 pm - 08:30 pm

Room 1130, Health Sciences, Wing E
University of Saskatchewan

SEEING BLACK HOLES WITH LIGHT AND PARTICLES

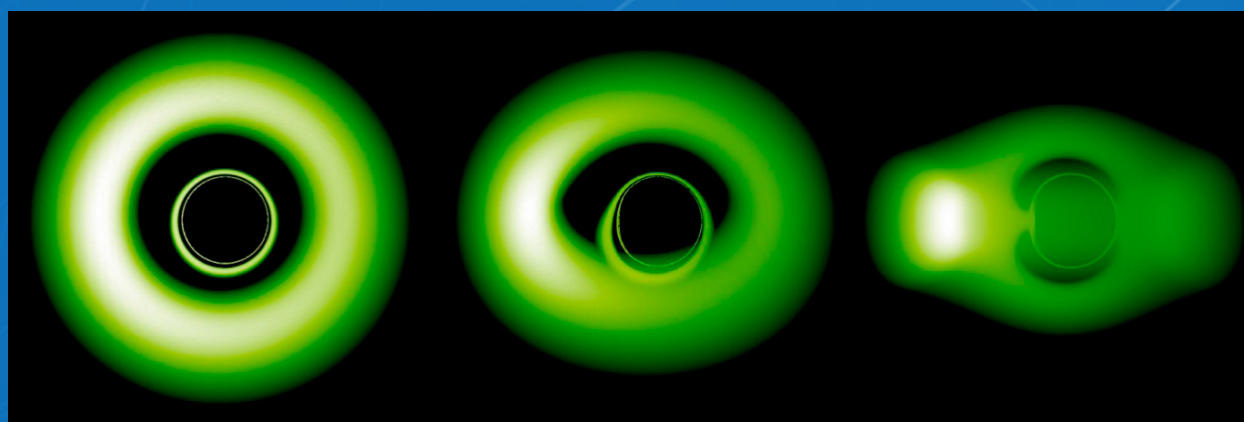


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Abstract

The black hole is a prediction of Einstein's theory of gravity. A black hole has at least two essential features, a singularity and an event horizon. Although the idea of a black hole has been widely accepted in the astronomical community, it is only recently that the existence of black holes has been directly verified by the detection of gravitational waves from black hole mergers by LIGO/VIRGO and through the synthetic imaging of the supermassive black hole in the M87 galaxy by the Event Horizon Telescope. While a black hole's gravity lenses light, it also lenses particles. Thus, we can also see black holes by non-electromagnetic means. In this talk I will discuss how we study the space-time around black holes using light and how we may also study the more general aspects of black holes using relativistic particles.



WEBSITE: [HTTPS://WWW.PIMS.MATH.CA/SCIENTIFIC-EVENT/190710-PLCRASC](https://www.pims.math.ca/scientific-event/190710-plcrasc)



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