

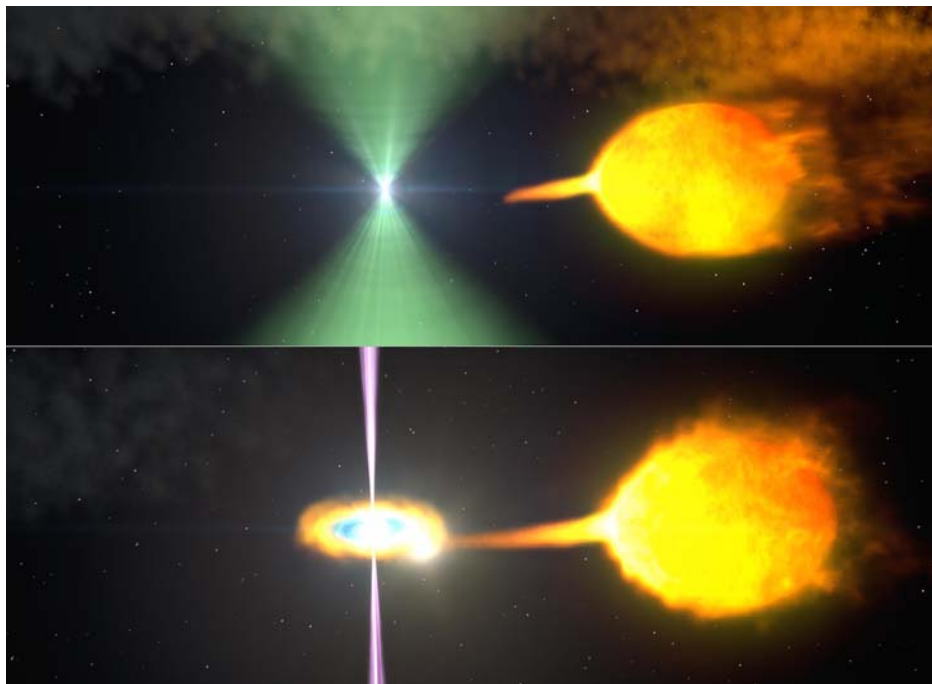
THE GEORGE WASHINGTON UNIVERSITY
Department of Physics Colloquium

**Searching for X-Ray Binaries with
Large-Scale Optical Variability Surveys**

Prof. Eric Bellm

University of Washington

Binary systems containing neutron stars and black holes are crucial to understanding accretion physics as well as stellar and binary evolution. However, current X-ray surveys have only identified a small fraction of the number of Galactic X-ray binaries expected from population synthesis. These systems exhibit a range of variability signatures in optical bands which can be identified with current and future optical variability surveys. I will describe ongoing searches with the Zwicky Transient Facility as well as prospects for discoveries with the Large Synoptic Survey Telescope.



TIME: 4:00-5:00 pm, Thursday, October 3, 2019
(refreshments: 3:30 pm upstairs by the 4th floor pantry)

PLACE: 101 Corcoran Hall, GWU
725 21st Street, NW

METRO STATION: GWU/FOGGY BOTTOM (BLUE & ORANGE LINES)