SEMINAR NOTICE

Department of Physics and Engineering Physics
University of Saskatchewan

SPEAKER: Dr. Stefano Valenti
University of California at Davis, Department of Physics and Astronomy

TOPIC: ***Future of Transients in the era of robotic telescopes***

DATE: October 12th, 2021

TIME: 3:30-4:30 p.m.

PLACE:

ABSTRACT:

Join Zoom Meeting:
https://usask-ca.zoom.us/j/96818469630?pwd=aGpiVUtjcEJmZzBqclZ2S042eGpiQT09

Join by Telephone:
Local Saskatoon Dial-in Number: (639) 638-7474
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Join by Video Conferencing Device (SIP):
96818469630@zoomcrc.com

Meeting ID: 968 1846 9630
Passcode: 07412447
Telephone Passcode: 07412447

Over the past 20 years, the standard scenario to explain the death of stars (Supernovae) has changed dramatically. I will start with a brief overview of the field focusing on Supernovae and the evolutionary paths of their progenitors. I will describe how robotic telescopes and wide-fields surveys are advancing our knowledge. I will present new results obtained with the DLT40 Survey: a 12-hours cadence SN search of nearby galaxies (D<40 Mpc: The DLT40 Survey), directly tied to rapid ground-based imaging and spectroscopy. Finally, I will discuss how the synergy of the next generation of time domain surveys and the new advanced interferometric gravitational wave detectors are opening a multi-messenger era in the study of transients phenomena.

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