SEMINAR NOTICE

Department of Physics and Engineering Physics
University of Saskatchewan

SPEAKER: Yasaman Y Sigari, PhD candidate,
Physics and Engineering Physics

TOPIC*:* *Vertical source size reconstruction at Canadian Light Source by measuring the spatial degree of coherence.*

DATE: Tuesday October 1st , 2024

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

PLACE: ***Physics 103***

Abstract:

As light sources are upgraded to achieve higher brightness and coherence, it is crucial to study and address the challenges of beam diagnostic tools to ensure accurate monitoring and control. Multi-bend achromats used in modern light sources significantly reduce the transverse beam sizes, posing challenges for live monitoring of the beam size due to diffraction at lower energies and technological limitations at higher energies. One method is to use interferometry as an indirect imaging technique to measure the vertical beam size to construct the electron beam emittance. Double-slit interferometry is used as a precise measurement tool to measure the modulus of the complex degree of coherence on the BXDS-IVU beamline at CLS.

For those attending the seminar, there will be coffee and cookies in the physics lounge (Phys 177)at 3:00pm.