

SEMINAR NOTICE

*Department of Physics and Engineering Physics
University of Saskatchewan*

SPEAKER: Jason Ho, PhD Candidate
Physics & Engineering Physics

TOPIC: *Beyond the Conventional Quark Model: Using QCD Sum Rules to Explore the Spectrum of Exotic Hadrons*

DATE: Tuesday January 28th, 2020

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

PLACE: Physics 103

ABSTRACT:

Since the infancy of the quark model, novel hadronic structures have been postulated that exist outside the bounds of the traditional three-quark and quark-antiquark pictures, yet still conform to the known properties of the strong nuclear force. Additionally, the past decades of experimental observations have unveiled mysterious particles and results that do not fit within the conventional quark model. This talk will give an overview of the phenomenological landscape of exotic hadrons, introduce the QCD sum rule methodology for predicting properties of these exotic hadronic states, and discuss recent results for the mass spectrum of hybrid mesons and the development of sum rule methods.

Coffee and Cookies will be served in Physics lounge at 3:00 p.m. for those attending the seminar.