

# SEMINAR NOTICE

*Department of Physics and Engineering Physics  
University of Saskatchewan*

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**SPEAKER:** Dr. Saurya Das, Dept of Physics & Astronomy  
University of Lethbridge

**TOPIC:** *Our Universe: the known, unknown and some speculations*

**DATE:** November 28th, 2017

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

**PLACE:** Physics 103

## **ABSTRACT:**

Our Universe is simple at scales larger than a few hundred megaparsecs: it is smooth, homogeneous, isotropic, spatially flat, and expanding at an accelerating rate following the laws of general relativity. Yet it presents a number of unresolved problems. These include its origin and final state, nature of its main constituents - dark matter and dark energy, and the mechanism behind its high degree of homogeneity, isotropy and flatness. I will describe success and failures of theories which try to address these and present some new ideas which attempt to explain the above.

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