

Algebra and Geometry Seminar

Speaker: Debaditya Raychaudhary (Fields Institute)

Title: Continuous CM-regularity and generic vanishing

Abstract: The purpose of this talk is to study a continuous variant of the Castelnuovo-Mumford regularity of torsion free coherent sheaves for polarized pairs (X, H) with H globally generated that was introduced by Mustopa. In particular, we will address a question raised by him that asks whether continuously 1-regular such sheaf is GV. As an application of our results, we will study the N_p property of the tautological line bundle on the projective bundle associated to a 0-regular vector bundle on (X, H) , where X is an abelian variety.