



Seminar Title

“Canonical riemannian metrics on algebraic manifolds.”

Speaker: Prof. Claudio Arezzo (ICTP, Italy)



Date/Time: Monday November 14, 2022

4:00 PM - 5:00 PM

Abstract

A central problem in Differential Geometry is to determine which are the “best” metrics one can put on a given space. I will review why “best” has been interpreted as “with constant curvature” in various situations and describe some classical challenges in proving their existence also on very simple spaces. I will then describe the behaviour of constant scalar curvature under few natural geometric constructions on algebraic manifolds. In particular I will present few existence results for blow ups of smooth points (in collaboration with Pacard and Singer) and on Galois covers (with Della Vedova and Shi).