

Colloquium

University of Notre Dame
Department of Mathematics

Ben Weinkove - Northwestern University

Speaker: Ben Weinkove

Northwestern University

Will give a lecture entitled

Complex surfaces and geometric flows

Date: Wednesday, March 20, 2019

Time: 4:00 PM

Location: 129 Hayes-Healy Hall

Departmental Tea: Tea in Room 257 (lounge in Hurley Hall) at 3:30 p.m.



Abstract:

The work of Hamilton and Perelman has shown that we can understand the geometry and topology of a three-dimensional manifold using the Ricci flow, a geometric flow of Riemannian metrics. There has been relatively little progress in understanding four-dimensional manifolds using the Ricci flow except when the manifold has some extra structure. In this talk I will explain what we know about the Ricci flow, and a related geometric flow called the Chern-Ricci flow, in the special case when the four-manifold admits a complex structure.