



Speaker: Lars Sektnan
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Thursday, April 27, 2017

11:00 AM

258 Hurley Hall

Title: Some results on stability for toric surfaces

Abstract:

In this talk I will describe some results on the relative K-stability of certain pairs (X, D) where X is a toric surface and D is a torus-invariant divisor. This uses the ambitoric constructions due to Apostolov-Calderbank-Gauduchon and Legendre. I intend to show how this leads to an interesting question on the asymptotics of the extremal metrics on $X \setminus D$ one obtains from these constructions when the pair is stable. I will try highlight the importance of these results for the question of what happens when an extremal metric does not exist on a polarised complex manifold. Part of the work is joint with Vestislav Apostolov and Hugues Auvray.