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**Speaker:** Ruadhair Dervan  
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Thursday, September 1, 2016

2:00 PM

125 Hayes-Healy Hall

**Title:** K-stability for Kähler manifolds

**Abstract:**

An important problem in Kähler geometry is to characterise the Kähler manifolds admitting constant scalar curvature Kähler metrics. When the Kähler manifold is a projective algebraic variety, the Yau-Tian-Donaldson conjecture states that the algebro-geometric notion of K-stability is equivalent to the existence of such metrics. We formulate a notion of K-stability for Kähler manifolds, and prove that Kähler manifolds admitting constant scalar curvature Kähler metrics are K-stable. This is joint work with Julius Ross.