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**Speaker:** Tristan Collins  
Harvard University

Monday, December 4, 2017

4:00 PM

129 Hayes-Healy Hall

**Title:** Sasaki-Einstein metrics and K-stability

**Abstract:**

I will discuss the connection between Sasaki-Einstein metrics and algebraic geometry in the guise of K-stability. In particular, I will give a differential geometric perspective on K-stability which arises from the Sasakian view point, and use K-stability to find infinitely many non-isometric Sasaki-Einstein metrics on the 5-sphere. This talk will discuss joint work with G. Székelyhidi.