Math 208 - Algebraic Geometry Seminar

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Algebraic K-stability theory of Fano varieties

Abstract:
In recent years, K-stability of Fano varieties has been proved to be a rich topic for higher dimensional geometers. The transition of knowledge is mutual. In one direction, we use the powerful machinery from higher dimensional geometry, especially the minimal model program, to have a better understanding of various concepts in K-stability. On the other direction, K-stability provides the right subclass to construct moduli spaces of Fano varieties, which had been once considered beyond reach by algebraic geometers. In the first half hour, I will explain how people change their viewpoint on the definition of K-stability. Then in the main talk, I will focus on the moduli of Fano varieties.

Special Note:
Pre-talk at 1:30pm

Host: James McKernan

Friday, June 12, 2020
2:00 PM
Zoom (contact Prof. McKernan)