

Harvard-MIT Algebraic Geometry Seminar

# Rigidity of homogeneous varieties

**Joseph (JM) Landsberg**

Texas A & M

A question that dates back to Monge, and has been worked on by Fubini, Griffiths and Harris, Hwang and Yamaguchi and others, is to recognize homogeneous varieties by their local differential geometry. I will describe recent work with C. Robles where we prove a general recognition theorem based on using Lie algebra cohomology to resolve exterior differential systems. References [arXiv:0707.3410](https://arxiv.org/abs/0707.3410) and [arXiv:math/0609507](https://arxiv.org/abs/math/0609507)

Tuesday September 18th

3:00 p.m.

MIT (2-142)