

# Colloquium

September 13, 2013

HH-3017, at 3 p.m.

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## Affine Invariant Points (joint work with M. Meyer and E. Werner)

### Abstract:

We answer in the negative a question by Grünbaum who asked if there exists a finite basis of affine invariant points. We give a positive answer to another question by Grünbaum about the "size" of the set of all affine invariant points. Related, we show that the set of all convex bodies  $K$ , for which the set of affine invariant points is all of  $\mathbb{R}^n$ , is dense in the set of convex bodies. Crucial to establish these results, are new affine invariant points, not previously considered in the literature.