

# Stanford Department of Mathematics Colloquium

Thursday, February 25  
4:15 p.m.  
Bldg. 380, Room 380-W.

## SYMPLECTIC EMBEDDINGS AND CONTINUED FRACTIONS

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### Abstract

As has been known since the time of Gromov's Nonsqueezing Theorem, symplectic embedding questions lie at the heart of symplectic geometry. This talk will discuss some recent joint work with Schlenk concerning the question of when a 4-dimensional ellipsoid can be symplectically embedded in a ball. This problem turns out to have unexpected relations to the properties of continued fractions, counts of lattice points in triangles, and exceptional curves in blow ups of the complex projective plane.

<http://math.stanford.edu/coll/0910/>