



## Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

**Dienstag, 27. Juni 2017**

17 Uhr s.t., Geom H4

Dr. Kyler Siegel  
(MIT)

### *On Lagrangian submanifolds of Euclidean space*

Abstract:

Many spaces arising in algebraic geometry and differential geometry have a natural symplectic structure floating around. In the presence of such a symplectic structure, one of the first and most fruitful lines of inquiry is to search for Lagrangian submanifolds, i.e. those submanifolds on which the symplectic two-form vanishes. Even for Euclidean space, the classification of Lagrangian submanifolds turns out to be highly intricate and not yet fully understood. In this talk I will survey what is known and describe some recent developments. No prior knowledge of symplectic geometry will be assumed.

Vor dem Vortrag (ab 16.30 Uhr) stehen im Raum 327 Kaffee und Tee bereit.