



## Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

**Dienstag, 18. April 2017**

17 Uhr s.t., Geom H4

Prof. Dr. Felix Schlenk  
(Université de Neuchâtel)

### ***Rigidity and flexibility of symplectic embeddings***

#### Abstract:

I will first say in a geometric way what "symplectic" means, and will then illustrate a special feature of this geometry, namely the coexistence of rigidity and flexibility, by looking at four symplectic embedding problems in dimension 4, namely embedding ellipsoids into a cylinder, a cube, a polydisc and a torus.

The answer is very different in each case: total rigidity, total flexibility with a hidden rigidity, and a two-fold subtle transition between them.

The talk is based on work by Cristofaro-Gardiner, Frenkel, Latschev, McDuff, Müller and myself.

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