

**Mathematisches Oberseminar** *PDG und Spektraltheorie* (WiSe 2015/16).

**Date:** 04.02.2016.

**Time and place:** 14:15 in B 134.

**Speaker:** Philippe Laurençot (Université de Toulouse).

**Titel:** *Stationary solutions to a free boundary model for MEMS.*

**Abstract:** A free boundary problem arising in the modeling of microelectromechanical systems (MEMS) is considered. Existence and non-existence of stationary solutions are discussed, together with their multiplicity for a given set of parameters. A building block of the proof is the variational structure of the model.

Joint works with Christoph Walker (Hannover)

Thomas Østergaard Sørensen