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## Seminar über Fragen der Mechanik

im Rahmen des EFI Projekts



**EMERGING  
FIELDS  
INITIATIVE**

**Novel Biopolymer Hydrogels  
for Understanding  
Complex Tissue Biomechanics**

Zu folgendem Vortrag wird herzlich eingeladen

**Donnerstag, 12.12.2019, 16:00 Uhr, Egerlandstr. 5, Raum 0.044**

## Engineering 3D microtissues

Dr. Thomas Boudou

Laboratoire Interdisciplinaire de Physique, Université Grenoble Alpes

Tissue engineering aims to build functional and physiological tissues in vitro in order to better understand organogenesis, to investigate the impact of genetic mutations and to screen potential therapies. During this seminar, I will present a microfabrication technique to engineer 3D microtissues and several approaches developed in our team to measure and modulate the mechanics of these tissues. I will first describe how we can interrogate tissue mechanics using optogenetics before presenting our previous work on physiological and pathological muscle tissue models.

Prof. Dr.-Ing. P. Steinmann  
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