

## Statistical physics far from equilibrium (T) - StatPhysNE

<i>Course</i>	Statistical physics far from equilibrium (T)
<i>Course No.</i>	StatPhysNE

Category	Type	Language	Teaching hours	CP	Semester
Elective	Lecture with exercises	English	4+2	8	ST

### Requirements for Participation:

**Preparation:** Advanced statistical mechanics

**Form of Testing and Examination:** Oral examination

**Length of Course:** 1 semester

**Aims of the Course:** Understanding the generic behavior of fluctuation-dominated systems far from equilibrium, and acquaintance with the basic mathematical tools used for their description.

### Contents of the Course:

Stochastic methods

Transport processes

Scale-invariant growth

Pattern formation far from equilibrium

### Recommended Literature:

P.L. Krapivsky, S. Redner and E. Ben-Naim: A kinetic view of statistical physics (Cambridge University Press, 2010)

M. Kardar, Statistical Physics of Fields (Cambridge University Press, 2007)

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