

<b>Module:</b>	<b>Elective Advanced Lectures: BCGS Courses</b>
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<b>Module No.:</b> physics70d
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**Course:**

## Statistical physics far from equilibrium (T)

**Course No.:**

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)