Course: Evolutionary Biology and Genomics for Physicists

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Requirements for participation:
Advanced Statistical Mechanics

Type of module examinations:
Oral Examination

Duration of the course:
1 semester

Aims of the course:
Acquaintance with basic concepts of molecular and evolutionary biology; understanding of statistical issues arising in the analysis of biological data, application of methods from statistical physics addressing them.

Contents of the course:
- Basic concepts of evolutionary theory
- Introduction to molecular evolution and genomics
- Theory of bio-molecular networks
- Concepts and methods of data analysis

Recommended literature:
F. Kepes, Biological Networks (World Scientific, Singapore 2007)