



Prof. Dr. J. Deiglmayr Prof. Dr. J. Vollmer

## **Physics Colloquium**

Tuesday, 21 June 2022 at 17:00

## Prof. Dr. Massimiliano Esposito

Complex systems and statistical mechanics, University of Luxembourg

## Nonequilibrium Thermodynamics of Complex Systems

I will start by discussing some of the main challenges that one faces when trying to formulate a nonequilibrium thermodynamics of complex systems. I will then discuss how to use stochastic thermodynamics to make progress

in that direction. Concrete evidence will be provided by considering applications to energy transduction in (bio-) chemical reaction networks, low power computation with nonlinear electronic circuits, and nonequilibrium phase transitions in Potts models.





joint colloquium with SFB TRR 102

Venue: Hörsaal für Theoretische Physik, Linnéstraße 5 Before the lecture we offer coffee in front of the lecture hall.