



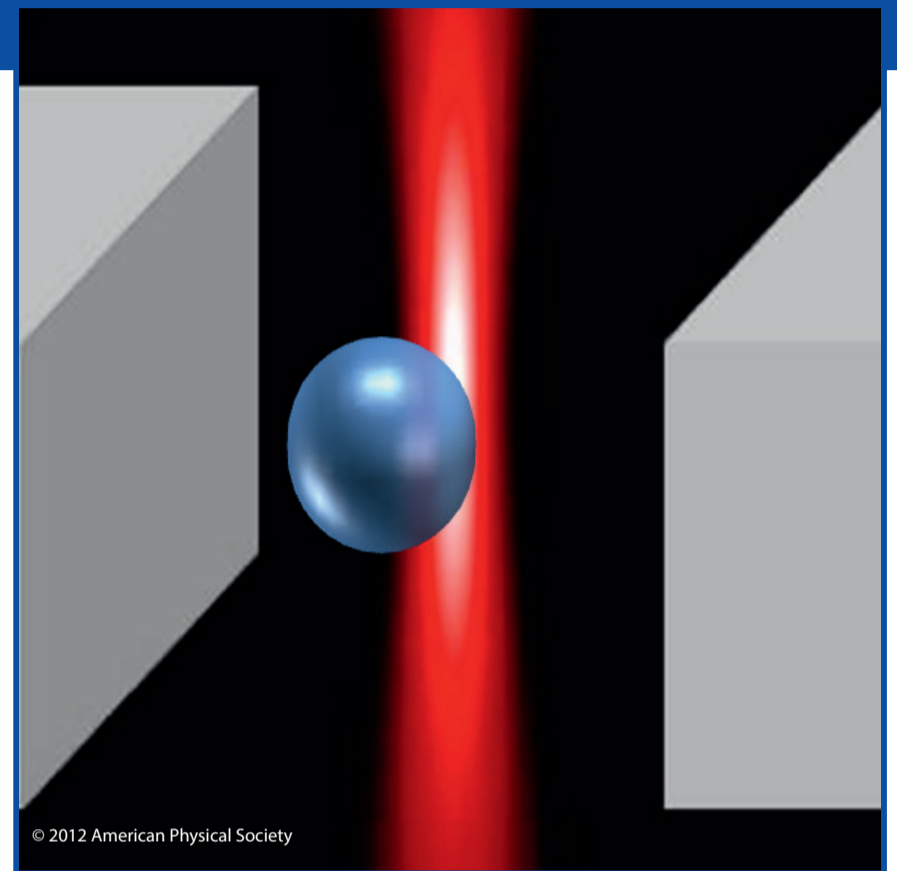
# Stochastic Thermodynamics: Experiment and Theory

## International Workshop 10 - 14 September 2018

Stochastic thermodynamics describes the fluctuating behaviour of small systems driven out of equilibrium. Recent experimental advances have led to precise experimental tests of fluctuation relations and other novel universal thermodynamic features at the mesoscale. This workshop will bring together experimentalists and theorists to discuss the state of the art and future directions of this emerging, evolving field.

### Topics:

- Fluctuation relations
- Uncertainty relations
- Large deviations and extreme values
- New universal properties
- Small engines
- Optimal thermodynamic protocols
- Information thermodynamics
- Thermodynamics of living systems



### Invited speakers:

Janet Anders (UK)  
Erik Aurell (SE)  
Andre C. Barato (DE)  
Clemens Bechinger (DE)  
Freddy Bouchet (FR)  
Raphaël Chétrite (FR)  
Livia Conti (IT)  
Massimiliano Esposito (LU)  
Pierre Gaspard (BE)  
Momčilo Gavrilov (US)  
Shamik Gupta (IN)  
Peter Hänggi (DE)  
Jordan M. Horowitz (US)  
Christopher Jarzynski (US)  
Frank Jülicher (DE)  
Katja Lindenberg (US)  
Eric Lutz (DE)  
Christian Maes (BE)  
Ignacio A. Martínez (ES)  
Antoine Naert (FR)  
Izaak Neri (DE)  
Juan MR Parrondo (ES)

Jukka P. Pekola (FI)  
Félix Ritort (ES)  
Takahiro Sagawa (JP)  
Shin-ichi Sasa (JP)  
Udo Seifert (DE)  
Ken Sekimoto (FR)  
David Sivak (CA)  
Hugo Touchette (ZA)  
Shoichi Toyabe (JP)  
Christian Van den Broeck (BE)

### Scientific coordinators:

John Bechhoefer  
Burnaby, Canada  
Sergio Ciliberto  
Lyon, France  
Simone Pigolotti  
Okinawa, Japan  
Édgar Roldán  
Dresden, Germany

### Organisation:

Mandy Lochar  
MPIPKS Dresden

Applications received before 31 May 2018 are considered preferentially.

Applications are welcome and should be made by using the application form on the event's web page. The number of attendees is limited. The registration fee for the international workshop is 120 Euro and should be paid by all participants. Costs for accommodation and meals will be covered by the Max Planck Institute. Limited funding is available to partially cover travel expenses.

### For further information please contact:

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