



Paths to Equilibrium – Relaxation, Virialisation and Thermalisation

Heidelberg Graduate School of Fundamental Physics

23.09. – 25.09.2015

Kloster Schöntal

Wednesday, 23 September 2015

- 10:00 Arrival and Coffee
- 10:30 Welcome and introduction
- 10:45 **Discussion I: Which assumptions enter when defining relaxation, virialisation and thermalisation? What are the requirements?**
Frank Könnig, Celia Viermann, Katharina Wollenberg
- 12:30 Lunch
- 14:30 **Discussion I continued**
- 16:00 Coffee break
- 16:30 **Discussion II: What is the interpretation of the different definitions of entropy? How can the apparent loss of information be explained?**
Steffen Hagstotz, Korbinian Huber, Robert Lilow, Rainer Weinberger
- 18:30 Supper

Thursday, 24 September 2015

- 7:30 Breakfast
- 8:30 **Discussion II continued**
- 10:00 Coffee break
- 10:30 **Discussion III: Is it possible to define state functions in non-equilibrium systems?**
Elena Kozlikin, Carsten Littek, Robert Reischke
- 12:30 Lunch
- 14:30 **Discussion III continued**
- 16:00 Coffee break
- 16:30 **Discussion IV: Which equilibrium solutions exist for specific physical systems, e.g. galaxy clusters?**
Jonas Frings, Svenja Jacob, Jolanta Krzyszkowska, Tim Tugendhat
- 18:30 Supper



Friday, 25 September 2015

- 7.30 Breakfast
- 9.00 **Discussion IV continued**
- 10.00 Coffee break
- 10.30 **Discussion IV continued**
- 12.30 Lunch
- 14.30 **Summary and open questions**
- 16.00 Coffee
- 16.30 Departure

Venue

Kloster Schöntal
Klosterhof 6
74214 Schöntal
Phone: 07943 / 8940

Organisation

Elena Kozlikin (elena.kozlikin@stud.uni-heidelberg.de)
Robert Lilow (lilow@stud.uni-heidelberg.de)
Robert Reischke (reischke@stud.uni-heidelberg.de)

Institut für Theoretische Astrophysik
Philosophenweg 12
69120 Heidelberg
Emergency contact: 0171 / 9957253



List of participants

Jonas Frings
Steffen Hagstotz
Korbinian Huber
Svenja Jacob
Frank Könnig
Elena Kozlikin
Jolanta Krzyszkowska
Robert Lilow
Carsten Littek
Robert Reischke
Tim Tugendhat
Celia Viermann
Rainer Weinberger
Katharina Wollenberg

Invited guests

Prof. Dr. Matthias Bartelmann
Prof. Dr. Björn Malte Schäfer