

Monday, 7th of Juli 2014

- 13:00 Arrival + Registration
- 14:00 Opening with a welcoming speech by Sami Solanki, Director of the MPS
- 14:30 Introduction of participants
- 15:00 *Over 10 years of PENCIL CODE : History and Developments* – Axel Brandenburg
- 16:00 Brainstorming about working and discussion topics - Planing of the week
- 17:00 Discussions and code work
- 18:00 Reception

Tuesday, 8th of July 2014

- 09:00 *Chondrule concentrations by a dust-gas instability on small scales* - Michiel Lambrechts
- 09:30 Guided tour through the new institut
- 10:30 Coffee break
- 11:00 MPS-Seminar (MPS Hörsaal): *Capturing solar and stellar activity with computers – dynamo waves and cycles from simulations* – Petri Käpylä
- 12:00 Discussions and code work
- 12:30 Lunch break
- 13:30 *Implementation of reaction models into the code* – Jonas Krüger
- 14:00 *High-Q Club on JUQUEEN - Scaling tests with PC* –Andreas Schreiber
- 14:30 Discussions and code work
- 15:00 Coffee break with Cake meeting of the institute
- 16:00 Discussion about implementing Lagrangian particles led by Nils Haugen
- 18:00 BBQ at the Institute
- 22:00 FIFA World Cup at the institute

Wednesday, 9th of July 2014

- 09:00 MPS-Seminar (MPS Hörsaal): *Asteroid formation by chondrule accretion* – Anders Johansen
- 10:00 Coffee break
- 10:30 *Convection simulations with reduced sound speed* – Petri Käpylä
- 11:00 *Aliasing in a Shearing Sheet* – Chao-Chin Yang
- 11:00 Discussions and code work
- 12:30 Lunch break
- 13:30 *A GPU Code in C from Dundee* – Simon Candelaresi
- 14:00 Discussion about using the Pencil Code for GPUs
- 15:00 Coffee break
- 15:30 Discussions and code work
- 19:00 Dinner in town
- 22:00 FIFA World Cup in town

Thursday, 10th of July 2014

- 09:00 *How MHD can help to solve the coronal heating problem* – Philippe Bourdin
- 09:30 *A model for the formation of the active region corona driven by magnetic flux emergence* – Feng Chen
- 10:00 *Supernova Driven Turbulence* – Fred Gent
- 10:30 Coffee break
- 11:00 *Polar spots with global dynamo simulations* – Rakesh Yadav
- 11:30 *Energization of charged particles by turbulence* – Dhrubaditya Mitra
- 12:00 Discussions and code work
- 13:00 Lunch
- 14:15 Astrophysical Colloquium (SR 17): *The solar dynamo and its spots* – Axel Brandenburg
- 15:15 Coffee break at the Institut for Astrophysics
- 15:30 *Status of the bfield module* – Chao-Chin Yang
- 15:30 Discussions and code work

Friday, 11th of Juli 2014

- 09:00 *Ionisation model in the PC* – Axel Brandenburg
- 09:30 Discussions and code work
- 10:30 Coffee break
- 11:00 Summary, Discussion and Farewell

