

Program of the 2015 Pencil Code meeting

Monday May 11

14:00: Welcome (Nils, Jonas and Jørgen)

14:15: Distribution of the Pencil Code t-shirt + name round + sign up for conference dinner (self-paid)

14:30: Opening talk: Axel Brandenburg: "Changes since July 2014"

15:30: Coffee

16:00: Discussion on: iostat=... and err=... handling, make the clear-text error message become visible?: Introduction by Philippe

16:30: Discussion about git and GitHub

17:00: End of meeting

Tuesday May 12

09:00: Natalia Babkova: "A study of aerosol dynamics in the cloud area"

09:20: Simon Candelaesi: "On the existence of magnetic vector potentials in periodic domains"

09:40: Edward Liverts: "Numerical Investigation of Weakly Nonlinear Dynamics of Thin Disks"

10:00: Coffee

10:40: Jørgen Røysland Aarnes: "Validation and immersed boundary method improvements for fluid flow simulations"

11:00: Jonas Kruger: "Influence of particle clustering on the decay rate of a passive scalar"

11:20: Transition to github (Tobi/Axel)

12:00: Lunch

13:00: Lab tour

14:00: Matthias Rheinhardt: "How Pencil could go GPU"

14:30: Philippe Bourdin: "Coding style and an automatic Fortran code formatting tool"

15:00: Coffee

15:20: Andreas Schreiber: "Streaming instability simulations with high dust to gas ratio"

15:50: Discussions and code work

17:00: End of meeting

17:30: Outdoor activities (e.g. soccer) with barbeque (if weather permits)

Wednesday May 13

09:00: Philippe Bourdin: "Electron acceleration inferred from a coronal loops MHD model"

09:20: Bidya Binay Karak: "Simulations of turbulent dynamos"

09:40: Xiang-Yu Li: "Adding condensation to the Smoluchowski equation"

10:00: Coffee

10:40: Piyali Chatterjee: "Simulation of the solar atmosphere with the pencil code: flares and delta spot"

11:00: Discussion on: Correct equation for mean entropy and turbulent flux of entropy (Axel)

11:30: Miikka Väisälä: "Calculating finite-differences with GPUs"

12:00: Lunch

13:00: GPU programming with OpenCL: Erik Smistad

13:30: Discussion on: "graphics on the fly" and "transition to fortran2003" (Matthias Rheinhardt)

14:00: Discussions and code work

15:00: Coffee

15:20: Discussions and code work

17:00: End of meeting

17:30: Conference dinner

Thursday May 14

09:00: Graeme Sarson: "Statistical properties from simulations of the SN-regulated ISM"

09:30: Luiz Felipe S Rodrigues: "The Parker instability in spiral galaxies"

10:00: Coffee

10:40: Sarah Jabbari: "Formation of bipolar magnetic spot in two-layer stratified turbulence dynamo model with Lambda effect"

11:00: Nishant Singh: "Surface waves in presence of hydromagnetic turbulence and its applications"

11:30: Hans Baehr: "Critical Cooling Parameter in Self-Gravitating Disks"

12:00: Lunch

13:00: Where will the next PC meeting be arranged?

13:30: AOB

14:00: Discussions

16:00: End of meeting

Participants

1. Mr. AARNES, Jørgen R.
2. Ms. BABKOVSKAIA, Natalia
3. Dr. BOURDIN, Philippe
4. Prof. BRANDENBURG, Axel
5. Dr. CANDELARESI, Simon
6. Dr. CHATTERJEE, Piyali
7. Dr. DINTRANS, Boris
8. Dr. HAUGEN, Nils Erland L.
9. Ms. JABBARI, Sarah
10. Dr. KARAK, Bidya Binay
11. Mr. KRUEGER, Jonas
12. Mr. LI, Xiangyu
13. Prof. LIVERTS, Edward
14. Dr. RODRIGUES, Luiz Felipe
15. Dr. SARSON, Graeme
16. Mr. SCHREIBER, Andreas
17. Dr. SINGH, Nishant
18. Mr. Väisälä, Miikka
19. Mr. BAEHR, Hans
20. Rheinhardt, Matthias