

1ST PHANTOM USERS WORKSHOP

CONFERENCE SUMMARY

Daniel Price 23rd Feb 2018























WHAT WE ACHIEVED

- ➤ Met each other!
- ➤ Learned how to make 360 videos (thanks Chris)
- ➤ MESA Equation of state bug found and fixed (thanks Tom, Orsola, Terry)
- ➤ We broke the code several times (thanks James for fixing)
- ➤ Wonderful new Fortree tool for mapping code (thanks Esther)
- ➤ Exact interpolation will soon be possible in splash (thanks Maya)
- ➤ Further work towards Helmholtz EOS (thanks Terry, Jose)
- ➤ MULTIGRAIN is almost merged into master (thanks Daniel M)
- ➤ Possible new way of handling drag timestep (thanks Joe)
- ➤ Learned how to use the MPI code (thanks Conrad)
- ➤ Learned how to couple with Monte Carlo radiative transfer (thanks Christophe, Maya)
- > PyAnalysis for analysing Phantom data in python (thanks Dave)
- ➤ Better support for CMacIonize and for storing n_e (thanks Maya, James)
- ➤ Checks for centre of mass conservation (thanks James)

WHAT WE STARTED

- ➤ A stream of wonderful 4pi videos (all)
- ➤ Dust growth in phantom (Arnaud, Esther, J-F)
- relativistic pulsar winds project (Chris, David)
- ➤ IRS48 project (Josh, Kieran, Daniel x 2)
- ➤ Cooling + winds from galactic centre (Chris, Daniel)
- ➤ Exact interpolation project (Maya, Daniel)
- ➤ Your future python-based analyses (David)
- Wider usage of MPI code (Conrad, Daniel)
- ➤ Interaction via Phantom slack channel
- ➤ Plenty of code ideas to keep me busy

THANKS

- Daniel M and Hayley for organising catering
- Sergei for sorting out website program
- ➤ Christophe, David, Sergei, Hayley, Daniel M, Kieran, Isabella for organising drinks reception
- ➤ Hayley for organising conference dinner
- Daniel P and Christophe for buying wine
- ➤ Steve Morton for recordings + conference photo
- > Special thanks to everyone who flew in for the workshop
- > Everyone for the stimulating week of interaction



DISCUSSION

- ➤ Annual meeting? (YES)
- ➤ Anyone want to host one? (Chris: Eclipse in Chile in July 2019? Also possibility for small workshop in Milan during DP visit in June/July 2018)
- ➤ How to best support user base? use of mailing list, slack channel. Can we create some kind of stack-overflow type user forum?
- ➤ Host Monthly dev telecons. First Tuesday of the month, maybe linked to the release schedule? Minutes should be taken
- ➤ Resourcing of code dev tools (e.g. pipeline minutes)? Merchandise! t-shirts, mugs, hats, beach towels (don't panic + phantom), laser-cubes, keep calm and use phantom, keep cups, drink bottles
- ➤ Code releases: First ok of the month should become a release...
- ➤ Create a simulation datastore similar to the PASA datastore? Could link existing datastore from wiki page (.setup, .in, output files)
- ➤ Should create phantom data tables repository in bitbucket, so data files do not live on DP personal website