Cambridge N-Body School 30/7 - 11/8

Final Programme

Sunday 30/7:

19.00-21.00: Welcome Reception in Churchill College

Monday 31/7:

09.30-10.45 Pavel Kroupa: *Initial Conditions for Clusters - I*

11.00-11.30 Coffee

11.30-12.45 Mike Fellhauer: *Dynamical Friction and Tidal Tails*

13.00-13.45: Lunch

14.15-15.30 Participants: *Sounding out interests, group formation and projects*

15.30-16.00 Tea

16.00-17.00 Pavel Kroupa: *Initial Conditions for Clusters - II*

17.00-18.00 Sverre Aarseth: *Codes, Scaling and Data Structure*

Tuesday 1/8:

09.30-10.45 Sverre Aarseth: *Algorithms and Implementations*

11.00-11.30 Coffee

11.30-12.45 Chris Tout: *Single Star Evolution*

13.00-13.45: Lunch

14.15-15.30 Sverre Aarseth: *Running N-Body Codes*

15.30-16.00 Tea

16.00-17.00 Chris Tout: *Practical Stellar Evolution*

17.00-18.00 Participants: *Group Projects*

Wednesday 2/8:

09.30-10.45 Seppo Mikkola: *Regular Algorithms for the Perturbed Two-Body Problem*

11.00-11.30 Coffee

11.30-12.45 Pavel Kroupa: *The IMF*

13.00-13.45: Lunch

14.15-15.30 Seppo Mikkola: *Two-Body Toy Codes*

15.30-16.00 Tea

16.00-17.00 Pavel Kroupa: *The Initial Binary Population*

17.00-18.00 Participants: *Group Projects*

Thursday 3/8:

09.30-10.45 Rosemary Mardling: *Resonance, Chaos and Stability: The Three-Body Problem in Astrophysics - I*

11.00-11.30 Coffee

11.30-12.45 Rainer Spurzem: *Post-Newtonian Dynamics*

13.00-13.45: Lunch

14.15-15.30 Rosemary Mardling: *Resonance, Chaos and Stability: The Three-Body Problem in Astrophysics - II*

15.30-16.00 Tea

16.00-17.00 Sverre Aarseth: *Three-Body Regularization with PN Project*

17.00-18.00 Participants: *Group Projects*

Friday 4/8:

09.30-10.45 Marc Freitag: *Fokker-Planck Simulations of Star Clusters*

11.00-11.30 Coffee

11.30-12.45 Rosemary Mardling: *Secular Evolution of Triple Systems including Tides, Spin and Relativity*

13.00-13.45: Lunch

14.15-15.30 Marc Freitag: *Experiments with a Fokker-Planck Code*

15.30-16.00 Tea

16.00-17.00 Rosemary Mardling: *A New Formalism for Studying Three-Body Interactions with Application to Scattering and Triple Lifetimes*

17.00-18.00 Participants: *Group Projects*

Monday 7/8:

09.30-10.45 Jarrod Hurley: *N-Body Stellar Evolution*

11.00-11.30 Coffee

11.30-12.45 Seppo Mikkola: *Regular Algorithms for the Few-Body Problem*

13.00-13.45: Lunch

14.15-15.30 Jarrod Hurley: *N-Body Code with Stellar Evolution*

15.30-16.00 Tea

16.00-17.00 Seppo Mikkola: *Few-Body Toy Codes*

17.00-18.00 Participants: *Group Projects*

Tuesday 8/8:

09.30-10.45 Chris Tout: *Binary Stellar Evolution*

11.00-11.30 Coffee

11.30-12.45 Dougal Mackey: *Realistic N-Body Simulations of Globular Clusters*

13.00-13.45: Lunch

14.15-15.30 Ross Church: *Live Stellar Evolution with NBODY6*

15.30-16.00 Tea

16.00-17.00 Sverre Aarseth: *Computing Online: Sverre.com & Nbodylab.org*

17.00-18.00 Participants: *Group Projects*

Wednesday 9/8:

09.30-10.45 Dougal Mackey: *N-Body Data Analysis – An Observer's Perspective*

11.00-11.30 Coffee

11.30-12.45 Jarrod Hurley: *N-Body Binary Evolution*

13.00-13.45: Lunch

14.15-15.30 Dougal Mackey: *Data Analysis Exercise*

15.30-16.00 Tea

16.00-17.00 Sverre Aarseth: *Wheel-Spoke Regularization and PN Treatments*

17.00-18.00 Participants: *Group Projects*

Thursday 10/8:

09.30-10.45 Rainer Spurzem: *Parallelization and Special Hardware*

11.00-11.30 Coffee

11.30-12.45 Mike Fellhauer: *Particle-Mesh Codes and Superbox*

13.00-13.45: Lunch

14.15-15.30 Sverre Aarseth: *Planetary Dynamics*

15.30-16.00 Tea

16.00-17.00 Mike Fellhauer: *Dynamical Friction on a Massive Body*

17.00-18.00 Rainer Spurzem: *Hands-On Session with NBODY6++ for different Hardware*

Friday 11/8:

09.30-10.45 Marc Freitag: *Monte-Carlo Simulations of Star Clusters*

11.00-11.30 Coffee

11.30-12.45 Jarrod Hurley: *N-Body Code with Binary Evolution*

13.00-13.45: Lunch

14.15-15.30 Participants: *Group Projects*

15.30-16.00 Tea

16.00-17.00 Participants: *Discussion of Group Projects*

17.00-18.00 All: *Conclusion*