

Gaia Data & Science

Invited Lecturers:

James Binney	(Rudolf Peierls Centre for Theoretical Physics, Oxford)
Angela Bragaglia	(INAF-Observatory of Astrophysics & Space Science)
Anthony Brown	(Leiden Observatory)
Laurent Eyer	(Observatoire de Geneve)
Francois Mignard	(Universite Cote d'Azur)

SOC: Andreas Just, Stefan Jordan (ARI Heidelberg)

School program (as of July 30): Lectures, science talks, exercises

Monday, September 10th, 2018

08:30 - 13:30 Registration

09:30 - 10:30 Welcome, organisational remarks

10:30 - 11:00 Gaia status and overview (Anthony Brown)

11:00 - 11:45 Astrometric modeling - I (Francois Mignard)

11:45 - 12:30 Modeling the Milky Way (disc) - I (James Binney)

12:30 - 14:00 Lunch

14:00 - 15:30 Data access (Hendrik Heintl / Stefan Jordan)

15:30 - 16:00 Coffee break

16:00 - 17:30 Exercises: Topcat examples (Hendrik Heintl / Stefan Jordan)

Tuesday, September 11th, 2018

09:00 - 09:45 Spectroscopic surveys & star clusters - I (Angela Bragaglia)

09:45 - 10:30 Gaia science & proper usage of astrometric data - I (Anthony Brown)

10:30 - 11:00 Coffee break

11:00 - 11:45 Astrometric modeling - II (Francois Mignard)

11:45 - 12:30 Modeling the Milky Way (disc) - II (James Binney)

12:30 - 14:00 Lunch

14:00 - 15:30 Orbits & Chemical Abundances in the Milky Way with Gaia
DR2 (Johanna Coronado)

Using Gaia for gravitational lensing (Jonas Klueter)

Chemo-dynamics of the solar neighborhood with the GALAH survey
and Gaia (Sven Buder)

Probing the kinematic properties of OB associations with Gaia (Jacob Ward)

15:30 - 16:00 Coffee break

16:00 - 17:30 Exercises (Anthony Brown)

18:00 - 19:30 Social dinner at MPIA (bus transfer 17:30)

19:30 - 21:30 Discussion of school exercises

Wednesday, September 12th, 2018

09:00 - 09:45 Variability & variable stars - I (Laurent Eyer)

09:45 - 10:30 Gaia science & proper usage of astrometric data - II (Anthony Brown)

10:30 - 11:00 Coffee break

11:00 - 11:45 Astrometric modeling - III (Francois Mignard)

11:45 - 12:30 Modeling the Milky Way (disc) - III (James Binney)

12:30 - 14:00 Lunch

14:00 - 18:00 Excursion: Castles of Neckarsteinach – Hiking, boat trip on the Neckar

Thursday, September 13th, 2018

09:00 - 09:45 Variability & variable stars - II (Laurent Eyer)

09:45 - 10:30 Spectroscopic surveys & star clusters - II (Angela Bragaglia)

10:30 - 11:00 Coffee break

11:00 - 11:45 A chemodynamical evolution model of the Milky Way disc in view of
Gaia DR2 (Andreas Just)

11:45 - 12:30 Gaia science & proper usage of astrometric data - III (Anthony Brown)

12:30 - 14:00 Lunch

14:00 - 15:30 Exercises (Francois Mignard)

15:30 - 16:00 Coffee break

16:00 - 17:30 Exercises (James Binney)

19:00 - 22:00 Pub evening

Friday, September 14th, 2018

09:00 - 09:45 Variability & variable stars - III (Laurent Eyer)

09:45 - 10:30 Spectroscopic surveys & star clusters - III (Angela Bragaglia)

10:30 - 11:00 Coffee break

11:00 - 11:45 Visualisation of Gaia data (Toni Sagrsta)

11:45 - 12:30 Exercises (Angela Bragaglia)

12:30 - 14:00 Lunch

14:00 - 15:30 Exercises (Laurent Eyer)

15:30 - 16:00 Farewell, departure