

THE GAIA TREASURE HUNT

Tuesday 3rd September — Coordinator Jason Sanders

9.00-9.45 Chris Wegg (Nice) “Modelling and Understanding the Bar and Bulge”

9.45-10.15 Jason Sanders (IoA) “Kinematics of the Milky Way's bar/bulge”

10.15-10.45 Nils Ryde (Lund) “The Chemical Characteristics of the Inner 2 degrees of the Bulge/Bar”

10.45-11.30 COFFEE

11.30-12.15 Francesca Fragkoudi (MPE) “The chemo-dynamic properties of the Milky Way bar/bulge”

12.15-12.45 Santi Roca-Fàbrega (Madrid) “The nature of spiral arms and its dependence on the Galactic bar strength and environment”

12.45-2.00 pm LUNCH

2.00-2.30 Daisuke Kawata (MSSL) “M2M modelling of disequilibrium Galactic disk”

2.30-3.00 Eugene Vasiliev (Cambridge) “Using Gaia for studying Milky Way star clusters”

3.00-3.30 Vardan Adibekyan (Porto) “HD186302: A nearby solar sibling candidate”

3.30-4.00 TEA

4.00-4.30 Ioana Ciuca (MSSL) “Introducing BINGO: Bayesian INference for Galactic archaeOlogy”

4.30-5.00 Bar/Bulge DISCUSSION (led by Jason Sanders)

Wednesday 4th September — Coordinator Justin Read

9.00-9.45 Misha Haywood (Paris) “Galactic thick disk: evolution and connection to the other stellar populations.”

9.45-10.15 Andreas Just (Heidelberg) “An evolutionary disc model: Inside-out growth and disc structure”

10.15-10.45 Sergey Khoperskov (MPE) “Phase-space spirals in the Milky Way disk”

10.45-11.30 COFFEE

11.30-12.15 Chervin Laporte (Victoria) “Footprints of the Sagittarius dwarf galaxy on the Milky Way disc across 10 scale lengths.”

12.15-12.45 Ted Mackereth (Birmingham) “Linking insights into the disc, bulge and halo for a holistic approach to constraining the assembly of the Milky Way”

12.45-2.00 LUNCH

2.00-2.45 Sofia Sivertsson (Stockholm) "The Local Dark Matter Density"

2.45- 3.15 Axel Widmark (Stockholm) "Measuring the local matter density using Gaia DR2"

3.15-3.45 TEA

3.45-4.15 Zhen Yuan (Shanghai) "Relics from LAMOST DR3 Very Metal-Poor Stars -- Linking to Early Nucleosynthesis in Ancient Dwarf Galaxies"

4.15-4.30 Anthony Brown (Leiden) "An UpDate on Gaia Data Release 3":

4.30-5.00 DISCUSSION (led by Justin Read)

Thursday 5th September — Coordinator Wyn Evans

9.00-9.45 Sergey Koposov (CMU) "Substructure in the Stellar Halo"

9.45-10.15 Andreea Font (Liverpool) "Insights from simulations on halo assembly"

10.15-10.45 James Lane (Toronto) "Determining the Shape of our Dark Matter Halo with Gaia and APOGEE"

10.45-11.30 COFFEE

11.30-12.15 Lachlan Lancaster (Princeton) "Quantifying Substructure: From Individual Discoveries to Science"

12.15-12.45 Vasily Belokurov (Cambridge) "A Bigger Splash"

12.45-2.00 LUNCH

2.00-2.30 Marius Cautun (Leiden) "The mass profile of the Galactic DM halo"

2.30-3.00 Andrew Everall (Cambridge) "Dodgy distances clouding a spherically aligned local halo"

3.00-3.30 Denis Erkal (Surrey) "Measuring the mass of the Milky Way in the presence of the LMC"

3.30-4.00 TEA

4.00-5.00 ROUND TABLE; Everyone speaks for a few minutes on the next important problem that want to solve.