



HOME DIRECTORY FOR SCIENTISTS TALKS NEWS EVENTS VISITOR INFO OUTREACH CONTACT HELP Feb 06, 2015

**KITP Conference: The Milky Way and its Stars:
Stellar Astrophysics, Galactic Archaeology, and Stellar Populations**

(Feb 2-6, 2015)

Coordinators: Jo Bovy, Charlie Conroy, Juna Kollmeier, Marc Pinsonneault

Monday, February 02, 2015

Stars: Inside, Out, Around, and About, Chair: Jo Bovy (IAS)

8:50am Lars Bildsten (KITP Director) Welcome
 9:00am Andrey Kravtsov (Univ. Chicago) The Milky Way in the cosmological context
 9:30am Hans-Walter Rix (MPIA) Stellar populations in the Milky Way and galaxy formation
 10:00am Discussion
 10:30am **Morning Break**

Stars: Inside, Out, Around, and About

11:00am Leo Girardi (INAF) Stellar evolution and stellar populations
 11:30am Daniel Huber (Sydney) Asteroseismology with red giants
 12:00pm Discussion
 12:30pm **LUNCH Break**

Stars: Forming, Exploding, Colliding, Streaming, Chair: Charlie Conroy (Harvard)

2:00pm Johannes Andersen (NBI) Early enrichment mechanisms of the heaviest and lightest elements
 2:15pm Steven Bloemen (Radboud Univ.) Gravitational wave sources and the hunt for their electromagnetic counterparts using the BlackGEM array
 2:30pm David Nidever (Univ. Michigan) Tracing chemical evolution over the extent of the Milky Way's disk with APOGEE red clump stars
 2:45pm Diane Feuillet (NM State Univ.) Unraveling the chemical history of the solar neighborhood with giants
 3:00pm Alexia Lewis (Univ. Washington) The spatially-resolved recent star formation history of M31
 3:15pm Discussion
 3:30pm **Afternoon Break**

Stars: Forming, Exploding, Colliding, Streaming

4:00pm Branimir Sesar (MPI) Orbit of the Ophiuchus stream
 4:15pm Denis Erkal (Univ. Cambridge) The growth of gaps in tidal streams
 4:30pm Andres del Pino Molina (Copernicus) Stellar populations and kinematics of the Fornax dSph galaxy
 4:45pm Discussion
 5:30pm **SHUTTLE TO BWSCI**

Tuesday, February 03, 2015

Current Surveys and What We Hope to Learn From Them: I

9:00am Anthony Brown (Leiden Univ.) The Gaia mission
 9:30am Dennis Stello (Sydney) The K2 mission
 10:00am Discussion
 10:30am **Morning Break**

Current Surveys and What We Hope to Learn From Them: I

Stars: Inside, Out, Around, and About

11:00am Conny Aerts (Univ. Leuven) Asteroseismology of dwarfs and massive stars
 11:30am Nadege Lagarde (Birmingham) Star quakes in NGC6819: a new tool to understand stellar and galactic evolution

11:45am Peter Papics (Univ. Leuven) Calibrating the stellar structure and evolution models of massive stars with asteroseismology
 12:00pm Valentina Schmid (Univ. of Leuven) A mixture of tidally-excited and kappa-driven p and g modes in the Kepler eccentric binary KIC10080943
 12:15pm Discussion
 12:30pm **Lunch Break**

Rare Stars: Finding them, Exploiting them, Chair: Connie Aerts (Leuven)

2:00pm Judith Cohen (Caltech) Outward bound with RR Lyrae stars: Studies of the outer halo of the Milky Way
 2:15pm Kevin Schlaufman (MIT) The best and brightest metal-poor stars
 2:30pm Presenters Poster Summaries
 3:30pm **Afternoon Break**

Rare Stars: Finding them, Exploiting them

4:00pm Ralph Schoenrich (Univ. Oxford) Chemo-dynamical modeling of the Milky Way
 4:30pm Jonathan Bird (Vanderbilt Univ.) Connecting observed $z=0$ stellar kinematics and disk formation scenarios with simulated galaxies
 4:45pm Elena D'Onghia (UW-Madison) Phase wrapping the Galactic disk and formation of the thick disk
 5:00pm Discussion
 5:30pm **RECEPTION**

6:00pm **SPECIAL EVENTS DINNER**

8:00pm **SHUTTLE TO BWSCI**

Wednesday, February 04, 2015

Turtles All the Way Down?, Chair: Juna Kollmeier (Carnegie Observatories)

9:00am Anna Frebel (MIT) The First Stars
 9:30am James Bullock (UC Irvine) The Milky Way's halo
 10:00am Discussion
 10:30am **Morning Break**
 12:30pm **LUNCH Break**

2:00pm **FREE AFTERNOON SHUTTLE AVAILABLE TO BWSCI**

Thursday, February 05, 2015

Current Surveys and What We Hope to Learn From Them: II, Chair: Andy Gould (OSU)

9:00am Sofia Feltzing (Lund Univ.) Spectroscopic analysis in the context of large surveys
 9:30am Maria Bergemann (MPIA) Chemical abundance analysis in the era of large surveys
 10:00am Discussion
 10:20am Jorgen Christensen-Dalsgaard (AU) SONG
 10:30am **Morning Break**

Current Surveys and What We Hope to Learn From Them: II

11:00am Steven Majewski (Univ. Virginia) The APO Galactic Evolution Experiment (APOGEE)
 11:30am Martin Smith (Shanghai Ast. Obs.) The Large Sky Area Multi-Object Fibre Spectroscopic Telescope (LAMOST)
 11:45am Birgitta Nordstrom (NBI) Stellar archeology in the solar neighborhood
 12:00pm Luca Casagrande (ANU) Asteroseismology for Galactic archeology: Bridging two fields
 12:15pm Discussion
 12:30pm **Lunch Break**

Stars as Probes: Accretion, Ages, Enrichment, Chair: Judy Cohen (Caltech)

2:00pm Andrew Gould (Ohio State Univ.) Precision CMDs in the Gaia era
 2:30pm Aldo Serenelli (ISS / UAB) Bayesian Age Estimation From Asteroseismology
 2:45pm Jieun Choi (Harvard) MIST: MESA Isochrones and Stellar Tracks

3:00pm Joss Bland-Hawthorn (Sydney) GALAH and Chemical tagging

3:15pm Discussion

3:30pm **Afternoon Break**

Stars as Probes: Accretion, Ages, Enrichment

4:00pm Jennifer van Saders (Carnegie Obs.) Gyrochronology

4:30pm Carlo Morossi (INAF/Obs. Trieste) Bayesian determination of ages of open cluster stars as a method to constrain the MW SFR history

4:45pm Sanjib Sharma (Sydney) Kinematic modeling of the Milky Way using the RAVE and GCS stellar surveys

5:00pm Andrea Miglio (Birmingham) Asteroseismology and Galactic populations

5:00pm Discussion

5:30pm **RECEPTION**

6:00pm **SPECIAL EVENTS DINNER**

8:00pm **SHUTTLE TO BWSCI**

Friday, February 06, 2015

Learning from Debris: Galactic and Metallic, Chair: Joss Bland-Hawthorne (ANU)

9:00am Julio Navarro (Univ. Victoria) Cosmological puzzles of the Local Group

9:30am Josh Simon (Carnegie Obs.) The Milky Way satellites

10:00am Discussion

10:30am **Morning Break**

Learning from Debris: Galactic and Metallic

11:00am Martin Asplund (ANU) The oldest objects in the Universe: extremely metal-poor stars in the Galactic bulge (via telecon)

11:15am David Nataf (Mount Stromio Obs.) Correcting for the variable effects of interstellar extinction

11:30am Daniel Weisz (Univ. Washington) An HST Census of M31 Satellites

11:45am Thomas de Boer (Univ. Cambridge) The star formation history of the Sagittarius dwarf galaxy and streams

12:00pm Evan Kirby (Caltech) Carbon in dwarf spheroidal galaxies

12:30pm **Lunch Break**

What Did We Learn Here?, Chair: Andrey Kravtsov (Univ. Chicago)

2:00pm Jo Bovy{summary}, Charlie Conroy Summary and discussion
Juna Kollmeier, Marc Pinsonneault

CONFERENCE END

3:30pm **SHUTTLE TO BWSCI *ALSO AVAILABLE TO SB AIRPORT AND SB AIRBUS, GOLETA LOCATION. (SEE REGISTRATION DESK TO SIGN UP)**