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国台学术报告 NAOC COLLOQUIUM

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Time: Wednesday 2:30 PM, Oct 14 **Location: A135 NAOC**

Measuring the Cosmos with Gaia

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Dr. Coryn Bailer-Jones obtained his PhD degree from Institute of Astronomy, Cambridge University in 1996, working on stellar classification. He then did a postdoc within the Inferential Sciences Group at the Cavendish Laboratory, where he worked on the modelling of materials processing with David Mackay. In 1998 he moved to the Max Planck Institute for Astronomie (MPIA) in Heidelberg to work primarily on brown dwarfs with Reinhard Mundt. In 2003 and 2010 he was a visiting scientist at Carnegie Mellon University, Pittsburgh, and Harvard University. Coryn is now a staff member at MPIA, where he leads the work within the Gaia Data

Processing and Analysis Consortium on source classification and estimation of astrophysical parameters. His main scientific interests are learning from astronomical surveys, statistical inference, Galactic structure, and the impact of astronomical phenomena on the Earth.

Abstract

The Gaia satellite, launch in December 2013, is now well into its five year mission to measure the positions, distances, and velocities of over a billion stars in the Galaxy. Its main scientific goal is to map the phase space structure of the stellar component of our Galaxy through astrometry. But it will also discover near-earth asteroids, exoplanets, and perform tests of General Relativity, to name just a few of the expected results. I will outline the measurement approach, the satellite and its mission, and some of the data products now emerging.



All are welcome! Tea, coffee, biscuits will be served at 2:15 PM.