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国台学术报告 NAOC COLLOQUIUM

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Time: Wednesday 2:30PM, July 16 Location: A601 NAOC

The MESSIER orbiter: unveiling galaxy formation



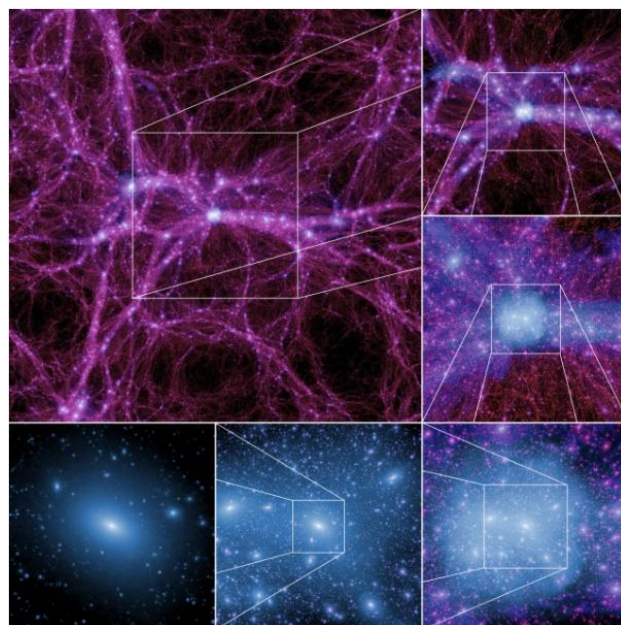
David Valls-Gabaud (LERMA, Observatoire de Paris)

Dr. David Valls-Gabaud is Director of Research at CNRS and works at Observatoire de Paris. Educated at the universities of Madrid, Paris and Cambridge, he has held research positions in Toronto, Cambridge, CFHT (Hawaii), and visiting positions at ESO and Beijing (NAOC and IHEP). He was recently awarded a Senior International Professorship by the Chinese Academy of

Sciences. His fields of expertise range from the cosmic microwave background to stellar populations through galaxy evolution, and gravitational lensing.

Abstract

MESSIER is a small European-Chinese satellite project aimed at exploring the last remaining niche in observational space: the extremely low surface brightness universe at UV and optical wavelengths. The two driving science cases target the mildly- and highly non-linear regimes of structure formation to test two key predictions of the LCDM scenario. MESSIER is designed for the detection of the putative large number of satellites orbiting normal galaxies up to some 200 Mpc, and the identification



of the filaments of the cosmic web at $z=0.65$. Many important secondary science cases will result as free by-products and will be discussed, along with the synergies with LAMOST, Gaia, and EUCLID.

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