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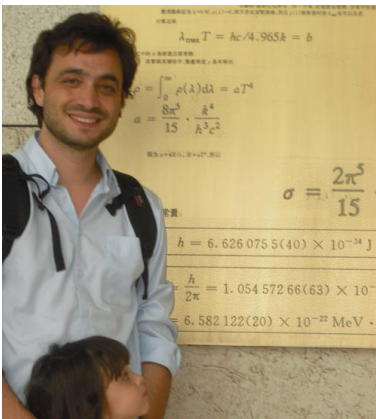
国台学术报告 NAOC COLLOQUIUM

2014 年 第 44 次 / Number44 2014

Time: Wednesday 2:30PM, Nov. 19 Location: A601 NAOC

Stacked weak gravitational lensing: constraining galaxy clusters structure and cosmological parameters

Dr. Giovanni Covone (University of Naples)

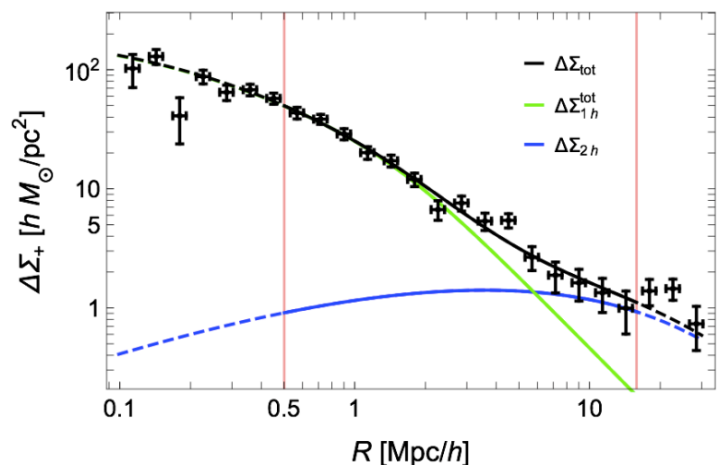


Dr. Giovanni Covone has studied as PhD student at University "Federico II" of Naples and at the MIT. He obtained his PhD in Physics from University "Federico II" of Naples in 2001. Then he worked as postdoc at the National Telescope Galileo (Spain) until 2003, at the CNRS-Laboratoire d'Astrophysique de Marseille (France) until 2006, at the INAF-Capodimonte Observatory (Italy) until 2007. Since 2008, he is assistant professor at the Department of Physics of the University of Naples. His main research interests include strong and weak gravitational lensing, observational cosmology and the study of the dark matter properties. He is currently leading the survey VOICE at the VLT Survey Telescope.

Abstract

Weak gravitational lensing is a powerful tool to investigate the structure of galaxy clusters and of the Universe on its largest scales. I will report about recent results (based on data from the CFHT Lensing Survey) to constrain the mass-concentration relation for galaxy clusters and the properties of the large-scale distribution, in particular the measurements of the so-called Halo Bias. Moreover, I will present a novel

method based on the joint analysis of clustering and weak lensing. We used this method to put new constraints on cosmological parameters. Finally, in the second part of my talk, I will present the VLT Survey Telescope (VST), the new survey telescope operating at Cerro Paranal (Chile), and the two on-going lensing surveys: KiDS (PI: K. Kuijken) and VOICE (PI: G. Covone).



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