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TIME: Wednesday, 2:30 PM, July 10, 2013 **LOCATION: A601 NAOC**

Challenges of population synthesis modelling



Dr. Peter Anders (NAOC)

The research interests of Dr. Peter Anders focus on population synthesis modelling of stellar clusters & galaxies. Modelling and the application of these models to the analysis of observations are combined in his ongoing research. He is one of the main developers of the widely used GALEV population synthesis models. The PhD thesis was written in Goettingen/Germany, with Dr. U. Fritze - v. Alvensleben, who originally developed GALEV. Following postdoc positions in Utrecht/The Netherlands and at the Kavli Institute/PKU in Beijing he is currently a LAMOST fellow at NAOC.

Abstract

I will present the wide range of possibilities but also challenges, which population synthesis modelling is dealing with. These are related to the input data which are used (e.g. stellar evolution, stellar spectra), the physics controlling the modelled systems (e.g. treatment of the stellar mass function, binary stars) and the application to observations. Many issues are well known, but some critical points are not yet treated sufficiently to provide realistic models. Deficits concern the treatment of the modelled stellar systems as well as neglecting the constantly improving observational capabilities.



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

You are welcome to nominate speakers to Weimin Yuan (wmy@nao.cas.cn), Mei Zhang (zhangmei@bao.ac.cn), Licai Deng (licai@bao.ac.cn), Xuelei Chen (xuelei@cosmology.bao.ac.cn), Shude Mao (smao@nao.cas.cn)