

国台学术报告 NAOC COLLOQUIUM

2011年 第53次 / Number 53, 2011

TIME: Wednesday 3:00 PM, Oct. 19, 2011

LOCATION: A601 NAOC

Dynamical constraints on dark matter in disc galaxies

Prof. Albert Bosma

Laboratoire d'Astrophysique de Marseille

Prof. Albert Bosma works on the Dark Matter problem, and his research concentrates on galactic dynamics. He works mainly on the structure of nearby galaxies, by doing observations (HI 21-cm line work, CO mm-observations, optical and infrared imaging, and optical spectroscopy), and theory. (Prof. Albert Bosma and E. Athanassoula are world-leading experts on galactic dynamics. They are visiting NAOC from Oct. 13- Oct. 28. Their office is room A516.)



Abstract

The Lambda-CDM theory, while very successful at large scales, encounters difficulties on the scale of galaxies. I will review a number of these difficulties, and focus on two of them: 1. the distribution of dark matter in spiral galaxies, i.e. can we unambiguously say that the central parts of spiral galaxies are dominated by baryonic matter and which dynamical constraints can help settle this question?, and 2) the presence of cusps in the dark matter distribution of low surface brightness galaxies.

All are welcome! Tea, coffee, biscuits will be served at 2:45 P.M.

You are welcome to nominate speakers to Shude Mao (shude.mao@gmail.com), Licai Deng (licai@bao.ac.cn), Xuelei Chen (xuelei@cosmology.bao.ac.cn).