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国台学术报告 NAOC COLLOQUIUM

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Time: **Wednesday 2:30 PM, Nov. 28th**

Location: **A601, NAOC**

MOCCA Survey Database I. - Projects Related to BHs?

Prof. Mirosław Daniel Giersz

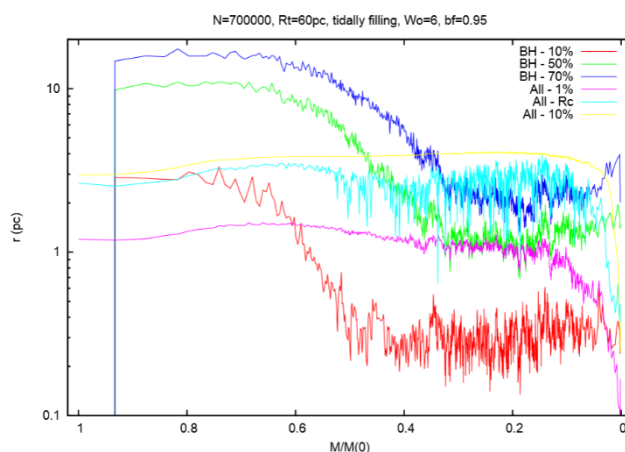
Nicolaus Copernicus Astronomical Center, Polish Academy of Sciences



Prof. Giersz did his PhD in 1989 at the Nicolaus Copernicus Astronomical Center, Polish Academy of Sciences under Prof. Stodólkiewicz's supervision. Then he got a post-doc position in Edinburgh University in Mathematics Department under Prof. Heggie's supervision. He returned to the Nicolaus Copernicus Astronomical Center on 1993 and since then he is employed there. From 1998 till 2006 he served as a Deputy Director. Mirek is particularly interested in stellar dynamics and globular cluster dynamical evolution, and gravitational wave emission from compact binaries in star clusters. He is a leader of a Stellar Dynamics group. Since 1993 Mirek very closely and very fruitfully collaborates with Prof. Rainer Spurzem on development of numerical techniques suitable to follow evolution of real globular clusters.

Abstract

I will very briefly describe the basic ideas behind the Monte Carlo MOCCA code and discuss the set-up of the MOCCA Survey Database project – a database containing thousands of Monte Carlo (MOCCA) simulations of real globular clusters. Afterwards, I will list and shortly describe projects connected with the analysis of the Database from the point of view of compact objects. Projects which deal, among others, with: BH and NS populations in star clusters and their interactions, BH Subsystems and IMBHs and their observational signatures, and many more. Finally, I will discuss recent developments of the MOCCA code and planned simulations for the MOCCA Survey Database II.



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