

Seminarium Astrofizyczne
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Hoża 69 pawilon sala 22

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**The Araucaria project.
Toward precise and accurate determination of the Hubble constant based on
eclipsing binaries, Cepheids, and SN Ia.**

I will present our distance measurement to the LMC accurate to 1%. This determination allows to determine the Hubble constant with a precision of 2 %, which has a very strong impact on one of the most important problems in cosmology - the discrepancy of recent determinations of H_0 (e.g. Planck mission versus Cepheids and SN Ia method). It is also important for many fields of modern astrophysics. I will discuss how to improve the classical method of H_0 determination based on Cepheids and SN Ia to deliver 1% accuracy, which would definitely solve the discrepancy problem. In this context I will present Polish observatory located next to E-ELT telescope in Chile.

Serdecznie zapraszam,
Agnieszka Majczyna