**Specjalne Seminarium Astrofizyczne**

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ul. Pasteura 7;sala 404

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**Maria E. S. Pereira**

(Hamburger Sternwarte/Universität Hamburg)

**Dark Energy Science with Combined Probes**

The discovery of the Universe’s accelerated expansion and the observational results from the latest ∼20 years have established the ΛCDM as the standard model of cosmology. Consequently, we have added two new exotic components to the matter-energy content of the Universe, dark matter and dark energy, neither of which have been observed in laboratories. In the ΛCDM model, dark energy is described as a cosmological constant Λ, but there are still open issues regarding its value and nature. Therefore, the understanding of the physical nature of dark energy is one of the main problems in cosmology. A robust approach to shed light on this problem is to measure different and complementary   
probes of dark energy and cosmic acceleration in large galaxy surveys. In this talk, I will present some of recent results from the Dark Energy Survey. In particular, the analysis of galaxy clusters abundance and measurements from gravitational wave standard sirens.

Serdecznie zapraszam,

Agnieszka Majczyna