

Study of Hubble Constant Anisotropies with the Zwicky Transient Facility

Wednesday 29 March 2023 11:40 (10 minutes)

The Zwicky Transient Facility at Mont Palomar Observatory (California, United States) has started its survey in early 2018, for six years. ZTF project consists of a new camera of about 600 million-pixels mounted on the Samuel Oschin 48-inch Schmidt telescope. ZTF is good transient detection machine, like for Supernovae type Ia. The new dataset provided by ZTF of Supernovae Ia with its large statistic covering more than half of the full sky will allow to address new cosmological questions related to potential anisotropies in the nearby Universe. The goal of my internship will be to use realistic ZTF simulation of SNe Ia to develop an analysis of differential measurement of H_0 as a function of the sky direction with the aim of quantifying the sensitivity of the survey for such potential anisotropies.

Title

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Session Classification: Presentations