

## Study of cosmic expansion anisotropy with type Ia supernovae from ZTF.

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The cosmological principle assumes the isotropy of our Universe. The high coverage of the Zwicky Transient Facility survey (ZTF) makes it possible to carry out an unprecedented study of the veracity of this principle by using observation of type Ia supernovae (SNe Ia).

This unique low redshift ( $z < 0.15$ ) survey with more than 3000 SNe Ia in the second data release (ZTF-DR2-SNe Ia) which spread across the northern sky, we can develop an analysis to study a possible anisotropy of  $H_0$ . In this talk, I will present a preliminary analysis attending to quantify the sensitivity of detecting anisotropies, like a dipole effect, with realistic simulation reproducing the ZTF-DR2-SNe Ia.

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