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Cosmology with the growth rate of structures using Type Ia Supernovae

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Type Ia supernovae are known to be standard candles, which means that we can infer their distance from their flux measurement and build their Hubble Diagram. Peculiar velocities can be retrieved from the Hubble Diagram residuals, but until now the statistics of SN Ia was too low to use these velocities as a cosmological probe. With the next generation of surveys (LSST, ZTF) the statistics of supernovae will grow in an unprecedented way, making the SN Ia peculiar velocities useful to measure the growth rate and to complement current measurements using galaxy surveys. In this talk, we propose to present our current work on the analysis to measure the growth rate using SN Ia from ZTF, with the methodology and the study of bias estimation and mitigation.

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