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Growth rate with type Ia supernovae

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Type Ia supernova are known to be standard candles, that means that we can infer their distance from their flux measurement and build their Hubble Diagram. Peculiar velocities can be retrieved from the HD residuals, but until now the statistic of SN Ia was too low to use these velocities as cosmological probe. With the next generation of surveys (LSST, ZTF) the statistics of supernovae will grow in an unprecedented way, making the use of 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, with the methodology and the study of bias estimation and mitigation.

Auteur principal: CARRERES, Bastien (CPPM)

Orateur: CARRERES, Bastien (CPPM)

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