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Squeezing data with model-independent approaches to constrain LCDM model and beyond

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Constraints on LCDM and beyond are usually obtained assuming, with different degrees, an underlying model, and that either on the level of the measurements or on the modeling of the systematics or when calculating parts of the theoretical outcomes for models beyond the fiducial one. In this talk we present some of our attempts to extract from the cosmological data information that are as much model-independent as possible, in order to constrain LCDM model parameters, such as the Hubble constant, the matter density and the matter fluctuation parameter σ_8 ; or models beyond LCDM such as those with extensions inducing effects on the background or on the large scale structures formation and growth level. We then show results and consequences from adopting these approaches with respect to ones obtained with more model dependent assumptions.

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