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Reconstructing Dark Energy

Monday 20 February 2012 19:30 (30 minutes)

Nature of dark energy is one of the biggest unknowns of the modern cosmology. I will summarizes general attempts to reconstruct the expansion history of the universe and to probe the nature of dark energy. Reconstruction methods can be broadly classified into parametric and non-parametric approaches. Presenting the analysis of the most recent cosmological data, some pitfalls of each approach to be guarded against during cosmological reconstruction will be summarised. Based on these analyses and by considering the current status of the data, I will then discuss some realistic-agnostic approaches on confronting cosmological models to the data.

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