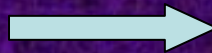


Arman Shafieloo

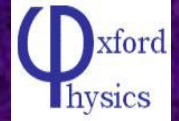


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Research Background:

- *Early universe physics from CMB.*
- *Late acceleration in the expansion history of the universe and the properties of dark energy.*
- *Brane-world cosmological models.*

Collaborators:

Varun Sahni (my PhD supervisor at IUCAA, Pune)
Tarun Souradeep (IUCAA)
Alexei Starobinsky (Landau Institute, Moscow)
Yuri Shtanov (Bogolyubov institute, Kiev)
Torsten Ensslin (Max Planck Institute, Garching)
Ujjaini Alam (IUCAA → Los Alamos National Lab)
Minu Joy (IUCAA → KASSI, Korea)

Research Interests and future plans:

- *Lambda or something else?*
- *Studying the extensions to the standard model of cosmology.*

Publications:

- 1. Two New Duagnostics of Dark Energy
Varun Sahni, Arman Shafieloo, Alexei. A. Starobinsky
Journal-ref: (Submitted) Arxive:0807.3548
- 2. Is a step in the primordial spectral index favored by CMB data?
Minu Joy, Arman Shafieloo, Varun Sahni, Alexei. A. Starobinsky
Journal-ref: (Submitted) Arxive:0807.3334
- 3. Estimation of Primordial Spectrum with post-WMAP 3 year data
Arman Shafieloo, Tarun Souradeep
Journal-ref: Phys. Rev. D 78, 023511 (2008)
- 4. Early Universe with CMB Anisotropy
Tarun Souradeep, Arman Shafieloo
Journal-ref: Progress of Theoretical Physics Supplement, No. 172, 156 (2008).
- 5. Model Independent Reconstruction of the Expansion History of the Universe and the Properties of Dark Energy
Arman Shafieloo
Journal-ref: Mon.Not.Roy.Astron.Soc. 380 (2007) 1573-1580
- 6. Features in the Primordial Spectrum from WMAP: A Wavelet Analysis
Arman Shafieloo, Tarun Souradeep, P. Manimaran, Prasanta K. Panigrahi, Raghavan Rangarajan
Journal-ref: Phys. Rev. D 75, 123502 (2007)
- 7. Smoothing Supernova Data to Reconstruct the Expansion History of the Universe and its Age
Arman Shafieloo, Ujjaini Alam, Varun Sahni, Alexei A. Starobinsky
Journal-ref: Mon.Not.Roy.Astron.Soc. 366 (2006) 1081-1095
- 8. Primordial power spectrum from WMAP
Arman Shafieloo, Tarun Souradeep
Journal-ref: Phys.Rev. D70 (2004) 043523