List Of Publications/Preprints

A. In Refereed Journals:

- 1. Quantum Imprints on CMBR; Shreya Banerjee, Universe 9, 9, 405, 2023.
- 2. Alleviating H₀ Tension with New Gravitational Scalar Tensor Theories; Shreya Banerjee, Maria Petronikolou, Emmanuel N. Saridakis, Phys. Rev. D **108**, 024012, 2023.
- 3. Prospects of Probing Dark Matter Condensates with Gravitational Waves; Shreya Banerjee, Sayantani Bera, David F. Mota, JCAP **03**, 041, 2023.
- Constraining F(R) bouncing cosmologies with primordial black holes; Shreya Banerjee, Theodoros Papanikolaou, Emmanuel N. Saridakis, Phys. Rev. D 106, 124012, 2022.
- Luminosity Selection for Gamma Ray Burst; Shreya Banerjee, Dafne Guetta, A&A, 661, A145, 2022.
- Differential Source Count for Gamma Ray Bursts; Shreya Banerjee, David Eichler, Dafne Guetta, ApJ, 921, 79, 2021.
- 7. Growth of Linear Perturbations in a Universe with Superfluid Dark Matter; Shreya Banerjee, Sayantani Bera and David F. Mota, JCAP **07**, 034, 2020.
- Running Vacuum from Dynamical Spacetime Cosmology; S. Banerjee, D. Benisty, E.I. Guendelman, Bulg. J. Phys. 48, 117-137, 2021.
- Evading the theoretical no-go theorem for nonsingular bounces in Horndeski/Galileon cosmology; Shreya Banerjee, Yi-Fu Cai and Emmanuel N. Saridakis, Class. Quant. Grav. 36, 135009, 2019.
- 10. Dynamics of inflation and dark energy from $F(R, \mathcal{G})$ gravity; S. D. Odintsov, V. K. Oikonomou and S. Banerjee, Nucl. Phys. B **938**, 935-956, 2019.
- 11. Bounce and cyclic cosmology in new gravitational scalar-tensor theories; Emmanuel N. Saridakis, Shreya Banerjee and R. Myrzakulov, Phys. Rev. D **98**, 063513, 2018.
- Constraints on fourth order gravity from binary pulsars and gravitational waves; Shreya Banerjee, Sayantani Bera, Srimanta Banerjee and T. P. Singh, Phys. Rev. D 96, 084015 (2017).
- On signatures of spontaneous collapse dynamics modified single field inflation; Shreya Banerjee, Suratna Das, K. Sravan Kumar, T. P. Singh, Phys. Rev. D 95, 103518 (2017).

- 14. Quantum discord as a tool for comparing collapse models and decoherence; Shreya Banerjee, Sayantani Bera, Tejinder P. Singh, Phys.Lett. A **380** 3778-3785 (2016).
- 15. Quantum Nonlocality, and the End of Classical Spacetime; Shreya Banerjee, Sayantani Bera and Tejinder P. Singh, Int. J. Mod. Phys. D 25, 1644005 (2016).
- 16. Bounce and cyclic cosmology in weakly broken galileon theories; Shreya Banerjee, Emmanuel N. Saridakis, Phys. Rev. D **95**, 063523 (2017).
- Hysteresis in the sky, Sayantan Choudhury; Shreya Banerjee, Astroparticle Physics 80, 34-89 (2016).
- Cosmological Constant, Quantum Measurement, and the Problem of Time; Shreya Banerjee, Sayantani Bera, Tejinder P. Singh, Int. J. Mod. Phys. 24, 1544011 (2015).
- 19. Cosmic Acceleration in a Model of Fourth Order Gravity; Shreya Banerjee, Nilesh Jayswal, Tejinder P. Singh, Phys. Rev. D92, 084026 (2015).
- Classicalization of inflationary perturbations by collapse models in the light of BI-CEP2; Suratna Das, Satyabrata Sahu, Shreya Banerjee, T. P. Singh, Phys. Rev. D90, 043503 (2014).

B. Conference Proceedings:

- Classicalization Of Inflationary Perturbations using Collapse Models; Proceedings of the Fourteenth Marcel Grossmann Meeting on General Relativity Rome, Italy 2015, Edited by M. Bianchi, R.T. Jantzen and R. Ruffini, World Scientific, 2017.
- Evolution of Quantum Universe, Quantum Measurement and Cosmological Constant; Proceedings of the Fourteenth Marcel Grossmann Meeting on General Relativity Rome, Italy 2015, Edited by M. Bianchi, R.T. Jantzen and R. Ruffini, World Scientific, 2017.
- 3. Explaining Late-time Acceleration in a Model of Fourth Order Gravity; Proceedings of the Fourteenth Marcel Grossmann Meeting on General Relativity Rome, Italy 2015, Edited by M. Bianchi, R.T. Jantzen and R. Ruffini, World Scientific, 2017.
- Cosmics Hysteresis; Proceedings of the Fourteenth Marcel Grossmann Meeting on General Relativity Rome, Italy 2015, Edited by M. Bianchi, R.T. Jantzen and R. Ruffini, World Scientific, 2017.

C. Work in Progress:

1. Observational Signatures of Decoherence in Quantum Cosmology, Shreya Banerjee, Kristina Giesel, Micahel Kobler, under preparation.

- 2. Observational Consequences of SAPT backreactions in quantum cosmology, Shreya Banerjee, Susanne Schander, Thomas Thiemann, under preparation.
- 3. Quantum Gravitational Effects on CMB in the presence of Starobinsky-like inflation, Shreya Banerjee, Claus Kiefer, Sravan Kumar, under preparation.
- 4. Resolving Hubble Tension and σ_8 tension with DHOST Theories, Shreya Banerjee, Maria Petronikolou, Emmanuel N. Saridakis, under preparation.