

# Masroor C. Pookkillath

## List of Publications

- [1] M.C. Pookkillath and N. Roy,  *$G_3$ -interacting scalar tensor dark energy*, 2408.02538.
- [2] M.C. Pookkillath and K. Koyama, *Theory of interacting vector dark energy and fluid*, 2405.06565.
- [3] K. Aoki, M.A. Gorji, T. Hiramatsu, S. Mukohyama, M.C. Pookkillath and K. Takahashi, *CMB spectrum in unified EFT of dark energy: scalar-tensor and vector-tensor theories*, *JCAP* **07** (2024) 056 [2405.04265].
- [4] P. Ajith et al., *The Lunar Gravitational-wave Antenna: Mission Studies and Science Case*, 2404.09181.
- [5] A. De Felice, K.-i. Maeda, S. Mukohyama and M.C. Pookkillath, *Gravitational collapse and formation of a black hole in a type II minimally modified gravity theory*, *JCAP* **03** (2023) 030 [2211.14760].
- [6] A. De Felice, S. Mukohyama and M.C. Pookkillath, *Extended minimal theories of massive gravity*, *Phys. Rev. D* **106** (2022) 084050 [2206.03338].
- [7] A. De Felice, K.-i. Maeda, S. Mukohyama and M.C. Pookkillath, *Comparison of two theories of Type-IIa minimally modified gravity*, *Phys. Rev. D* **106** (2022) 024028 [2204.08294].
- [8] A. De Felice, S. Mukohyama and M.C. Pookkillath, *Static, spherically symmetric objects in type-II minimally modified gravity*, *Phys. Rev. D* **105** (2022) 104013 [2110.14496].
- [9] M.C. Pookkillath, *Minimally Modified Gravity Fitting Planck Data Better Than  $\Lambda$ CDM*, *Astron. Rep.* **65** (2021) 1021.
- [10] A. De Felice, S. Mukohyama and M.C. Pookkillath, *Minimal theory of massive gravity and constraints on the graviton mass*, *JCAP* **12** (2021) 011 [2110.01237].
- [11] J.B. Achour, A. De Felice, M.A. Gorji, S. Mukohyama and M.C. Pookkillath, *Disformal map and Petrov classification in modified gravity*, *JCAP* **10** (2021) 067 [2107.02386].
- [12] A. De Felice, S. Mukohyama and M.C. Pookkillath, *Addressing  $H_0$  tension by means of VCDM*, *Phys. Lett. B* **816** (2021) 136201 [2009.08718].
- [13] K. Aoki, A. De Felice, S. Mukohyama, K. Noui, M. Oliosi and M.C. Pookkillath, *Minimally modified gravity fitting Planck data better than  $\Lambda$ CDM*, *Eur. Phys. J. C* **80** (2020) 708 [2005.13972].
- [14] M.C. Pookkillath, A. De Felice and A.A. Starobinsky, *Anisotropic instability in a higher order gravity theory*, *JCAP* **07** (2020) 041 [2004.03912].

- [15] A. De Felice, C.-Q. Geng, M.C. Pookkillath and L. Yin, *Reducing the  $H_0$  tension with generalized Proca theory*, *JCAP* **08** (2020) 038 [2002.06782].
- [16] M. Hameeda, B. Pourhassan, M. Faizal, C.P. Masroor, R.U.H. Ansari and P.K. Suresh, *Modified theory of gravity and clustering of multi-component system of galaxies*, *Eur. Phys. J. C* **79** (2019) 769 [1911.01739].
- [17] M.C. Pookkillath, A. De Felice and S. Mukohyama, *Baryon Physics and Tight Coupling Approximation in Boltzmann Codes*, *Universe* **6** (2019) 6 [1906.06831].