

# Season 6

Event on Tuesday 14.00-15.00 online and on-site

at NAS, Science Lab. Bld. , Mahidol University, Nakhonsawan Campus

Organizer: Dr. Nandan Roy

Previous Lists of Discussion [[Season 1](#), [Season 2](#), [Season 3](#), [Season4](#), [Season 5](#)]

Format: We will be discussing the voted paper on the Benty-field. In case you are interested to join our journal club search for the **NAS Cosmology Journal Club** and join.

No	Date	Discussion Topic and Reference	Discussion Leader
1	02/05/2023	<b><a href="#">Model-independent study for a quintessence model of dark energy: Analysis and Observational constraints</a></b> Amine Bouali (Oujda U.), Himanshu Chaudhary (Delhi Tech. U.), Amritansh Mehrotra (Pune U. and Jamia Millia Islamia), S.K.J. Pacif (SGT U., Gurugram) e-Print: <a href="#">2304.02652</a> [gr-qc]	Nandan Roy
2	09/05/2023	<b><a href="#">Structure formation and quasi-spherical collapse from initial curvature perturbations with numerical relativity simulations</a></b> <a href="#">Robyn L. Munoz</a> , <a href="#">Marco Bruni</a> e-Print: <a href="#">2302.09033</a> [astro-ph.CO]	Masroor C. Pookkillath
3	16/05/2023	<b><a href="#">Background evolution and growth of structures in interacting dark energy scenarios through dynamical system analysis</a></b> Wompherdeiki Khyllap (Northeastern Hill U., Shillong and St. Anthony's Coll., India), Jibitesh Dutta (Northeastern Hill U., Shillong and IUCAA,	Prasanta K Sahoo

- Pune), Spyros Basilakos (Athens Observ. and Athens Academy), Emmanuel N. Saridakis (Athens Observ. and USTC, Hefei)  
e-Print: [2111.01268](#) [gr-qc]  
DOI: [10.1103/PhysRevD.105.043511](#) (publication)  
Published in: Phys.Rev.D 105 (2022) 4, 043511
- 4      23/05/2023      **[Cosmic acceleration in entropic cosmology](#)**      Amornthep Tita  
Javier Chagoya (Zacatecas U.), I. Díaz-Saldaña (Zacatecas U.), J.C. López-Domínguez (Zacatecas U. and Guanajuato U.), M. Sabido (Guanajuato U.)  
e-Print: [2305.01607](#) [gr-qc]
- 5      30/05/2023      **[Can black holes cause cosmic expansion?](#)**      Pichayoot Baisri  
Jafar Sadeghi, Saeed Noori Gashti, Mohammad Reza Alipour, Mohammad Ali S. Afshar  
e-Print: [2305.12545](#) [gr-qc]
- 6      06/06/2023      **[Cosmological models with arbitrary spatial curvature in the theory of gravity with non-minimal derivative coupling](#)**      Candrasyah Muhammad  
[Sergey V. Sushkov](#), [Rafkat Galeev](#)  
e-Print: [2306.00611](#) [gr-qc]
- 7      20/06/2023      **[Exploring the  \$H\_0\$  tension and the evidence for dark sector interactions from 2D BAO measurements](#)**      Nandan Roy  
Armando Bernui (Rio de Janeiro Observ.), Eleonora Di Valentino (Sheffield U.), William Giarè (Sheffield U.), Suresh Kumar (Unlisted, IN), Rafael C. Nunes (Rio Grande do Sul U. and Sao Jose, INPE)  
e-Print: [2301.06097](#) [astro-ph.CO]  
DOI: [10.1103/PhysRevD.107.103531](#) (publication)  
Published in: Phys.Rev.D 107 (2023) 10, 103531
- 8      27/06/2023      **[Cosmography of  \$f\(R\)\$  - brane cosmology](#)**      Prasanta K Sahoo  
[Mariam Bouhmadi-Lopez](#) (Lisbon, CENTRA),

Salvatore Capozziello (Naples U. and INFN, Naples),  
Vincenzo F. Cardone (Naples U. and Molise U.)

e-Print: [1010.1547](https://arxiv.org/abs/1010.1547) [gr-qc]

DOI: [10.1103/PhysRevD.82.103526](https://doi.org/10.1103/PhysRevD.82.103526)

Published in: Phys.Rev.D 82 (2010), 103526

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| 9  | 4/07/2023  | <p><b>Shadow behavior of the quantum-corrected Schwarzschild black hole immersed in holographic quintessence</b></p> <p>Sara Saghafi (Mazandaran U., Babolsar), Kourosh Nozari (Mazandaran U., Babolsar)</p> <p>e-Print: <a href="https://arxiv.org/abs/2306.13767">2306.13767</a> [hep-th]</p> <p>DOI: <a href="https://doi.org/10.22128/jhap.2022.515.1019">10.22128/jhap.2022.515.1019</a> ,<br/><a href="https://doi.org/10.22128/JHAP.2022.515.1019">10.22128/JHAP.2022.515.1019</a> (publication)</p> <p>Published in: JHAP 3 (2022) 1, 31-38</p> | Amornthep Tita    |
| 10 | 11/07/2023 | <p><b>Cosmological constraints on dark energy in <math>f(Q)</math> gravity: A parametrized perspective</b></p> <p>A. Mussatayeva, N. Myrzakulov, M. Koussour</p> <p>e-Print: <a href="https://arxiv.org/abs/2307.00281">2307.00281</a> [gr-qc]</p> <p>DOI: <a href="https://doi.org/10.1016/j.dark.2023.101276">10.1016/j.dark.2023.101276</a> (publication)</p> <p>Published in: Phys.Dark Univ. 42 (2023), 101276,<br/>Physics of the Dark Universe (2023)</p>  | Phichayoot Baisri |