

Organizer: Dr. Nandan Roy

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

Discussion: Holographic Dark energy, H_0 Tension, and σ_8 Tension.

No	Date	Discussion Leader	Topic	Reference
1	22/06/2022	Phichayoot Baisiri	Faraoni, Valerio, Serena Giardino, Andrea Giusti, and Robert Vanderwee. "Scalar field as a perfect fluid: thermodynamics of minimally coupled scalars and Einstein frame scalar-tensor gravity." arXiv preprint arXiv:2208.04051 (2022).Holographic warm inflation	Mohammadi, Abolhassan. "Holographic warm inflation." <i>Physical Review D</i> 104.12 (2021): 123538.
2	27/06/2022	Amornthep Tita	Holographic dark energy model and scalar-tensor theories	Bisabr, Yousef. "Holographic dark energy model and scalar-tensor theories." <i>General Relativity and Gravitation</i> 41, no. 2 (2009): 305-313.
3	12/07/2022	Candrasyah Muhammad	On inflation with non-minimal coupling.	Hertzberg, Mark P. "On inflation with non-minimal coupling." <i>Journal of High Energy Physics</i> 2010, no. 11 (2010): 1-14.

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| 4 | 26/07/2022 | Nandan Roy | Cosmic acceleration from first principles. | Garcia-Bellido, Juan, and Llorenç Espinosa-Portales. "Cosmic acceleration from first principles." <i>Physics of the Dark Universe</i> 34 (2021): 100892. |
| 5 | 28/09/2022 | Candrasyah Muhammad | Scalar field as a perfect fluid: thermodynamics of minimally coupled scalars and Einstein frame scalar-tensor gravity | Faraoni, Valerio, Serena Giardino, Andrea Giusti, and Robert Vanderwee. "Scalar field as a perfect fluid: thermodynamics of minimally coupled scalars and Einstein frame scalar-tensor gravity." <i>arXiv preprint arXiv:2208.04051</i> (2022). |