Journal Club- session: 16. Dec. 2019

Read the following publication about the anisotropy of cosmic acceleration:

A&A 631, L13 (2019) https://doi.org/10.1051/0004-6361/201936373 © ESO 2019

A strophysics

arXiv:1808.04597

LETTER TO THE EDITOR

Evidence for anisotropy of cosmic acceleration*

Jacques Colin¹, Roya Mohayaee¹, Mohamed Rameez², and Subir Sarkar³

- CNRS, UPMC, Institut d'Astrophysique de Paris, 98 bis Bld Arago, Paris, France
- ² Niels Bohr Institute, University of Copenhagen, Blegdamsvej 17, 2100 Copenhagen, Denmark
- ³ Rudolf Peierls Centre for Theoretical Physics, University of Oxford, Parks Road, Oxford OX1 3PU, UK e-mail: s.sarkar@physics.ox.ac.uk

Received 22 July 2019 / Accepted 18 October 2019

- What is a non-Copernican observer?
- According to CMB measurements, do we expect to be non-Copernican observers?
- How is the deceleration parameter measured using the SNIa distribution?
- What does a monopole in the deceleration parameter refer to? What is the expectation for ΛCDM ?
- Why do we observe a dipole in the deceleration parameter? Is the dipole observed in the SNIa distribution consistent with the observed CMB dipole prediction?