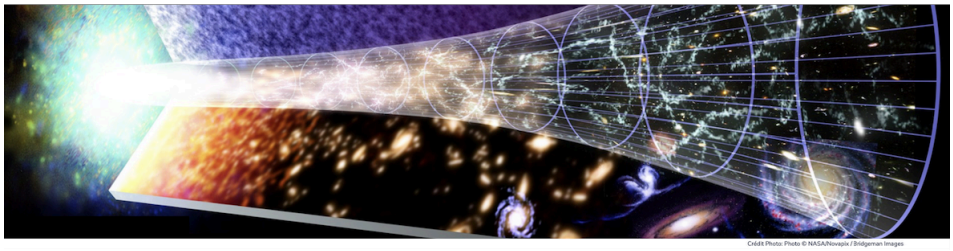

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The cosmic matter dipole problem

lundi 1 juin 2026 17:00 (30 minutes)

The Ellis and Baldwin formula provides a model-independant way to measure our own velocity with respect to matter at large scale, by measuring the kinematic impact on the dipole in the number count of far away light sources. However, this measurement doesn't coincide with the same measurement of our velocity with respect to the CMB. This discrepancy puts into question the existence of the Cosmological Rest Frame [Secrest et al. 2021]. Here, I will present this cosmic matter dipole problem in more details, and explain how we plan to tackle this issue with future large scale surveys, in particular using LSST and Euclid.

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