

## Cosmicflows-4 Cosmography

*Tuesday 4 February 2025 10:00 (20 minutes)*

The Cosmography inferred for the Cosmicflows-4 Catalog of 56000 peculiar velocities is presented, expanding on the HMC reconstruction recently published in Valade et al, Nature Astronomy (2024). Beside the 3D mapping of the overdensity and velocity fields, a map of the V-Web is constructed by analysis of the eigenvalues of the shear tensor. Earlier findings in the structure of the Cosmic V-Web, such as the Cen-Pup-PP filament or the South Pole Wall, obtained with Cosmicflows-2 and Cosmicflows-3, are confirmed. A particular attention is given to the mapping of structures located within or crossing the zone of galactic obscuration, as well as the structures located in the previously uncharted regions now covered in Cosmicflows-4 thanks to the inclusion of the SDSS-PV sample, out to 30000 km/s in the galactic north, including the basin of attraction of the Sloan Great Wall and that of the Hercules Supercluster.

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**Session Classification:** Session 4