

Local Cosmology in the Gaia era

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The Galactic stellar populations can be used to test the predictions made by the Cold Dark Matter (CDM) model and compared with the observations at high redshift. Thanks to the modern astrometric, photometric and spectroscopic stellar surveys we can identify the «building blocks» of the Milky Way. Studies based on the Gaia DR's and ground based spectroscopic surveys have already identified a major merger of a dwarf galaxy (GSE) at $z=2$ (10 Gyr ago) plus the debris of various minor mergers and streams in the Galactic halo, as well as in the Galactic disc (Icarus).

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