

P4: Identification of substructure in large stellar surveys

Background

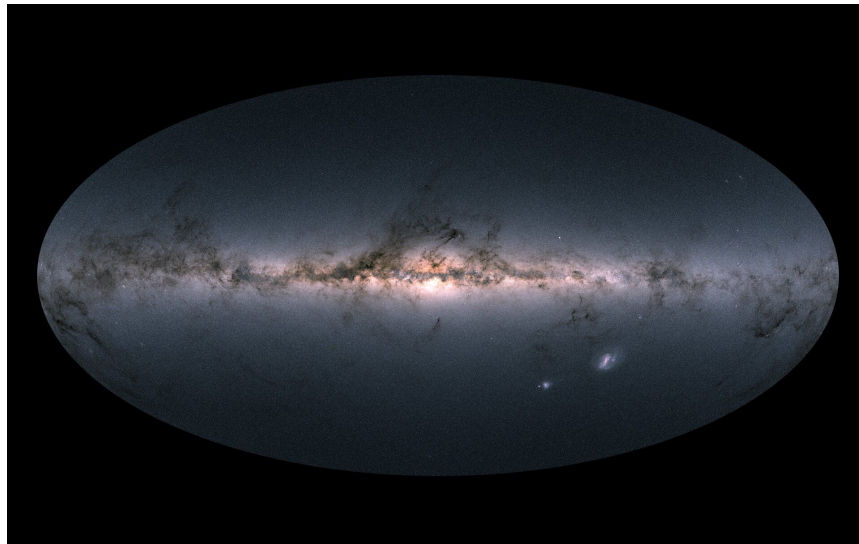
Large surveys of the sky such as SDSS, DES, Gaia have revolutionized the field of galactic archaeology and our understanding of the Milky Way and its neighbors. One of the most exciting results from this was the discovery of a large number of previously unknown dwarf galaxies and stellar streams

Project goal

The goal of the project is to take a subset of Gaia data and detect the substructures in position and position-velocity space using density estimation and orbital modeling techniques.

Necessary concepts

Milky Way, magnitudes, colors, proper motions



Sergey Koposov

Institute for Astronomy
University of Edinburgh

