New insights on the dynamical evolution of the MW galactic disc

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Methodology and Tools to be developed:

Way Galactic disc, using the phase space distribution function (DF) of the stellar component, as seen by Gaia.

Goal:

· Analytical potentials (time dependent) / map of the orbital structure





Identification of the orbits populated in the Gaia

sphere Identification of kinematic signatures through the

large scale analysis of the moving group in the galactic disc

selfgravity, hydrodynamics, radiative cooling, star formation, supernova feedback and metal enrichment

References:

Kawata D., Gibson B., 2003, MNRAS, 340, 908 Kawata D., Okamoto T., Cen R., Gibson B., 2009, ...

