

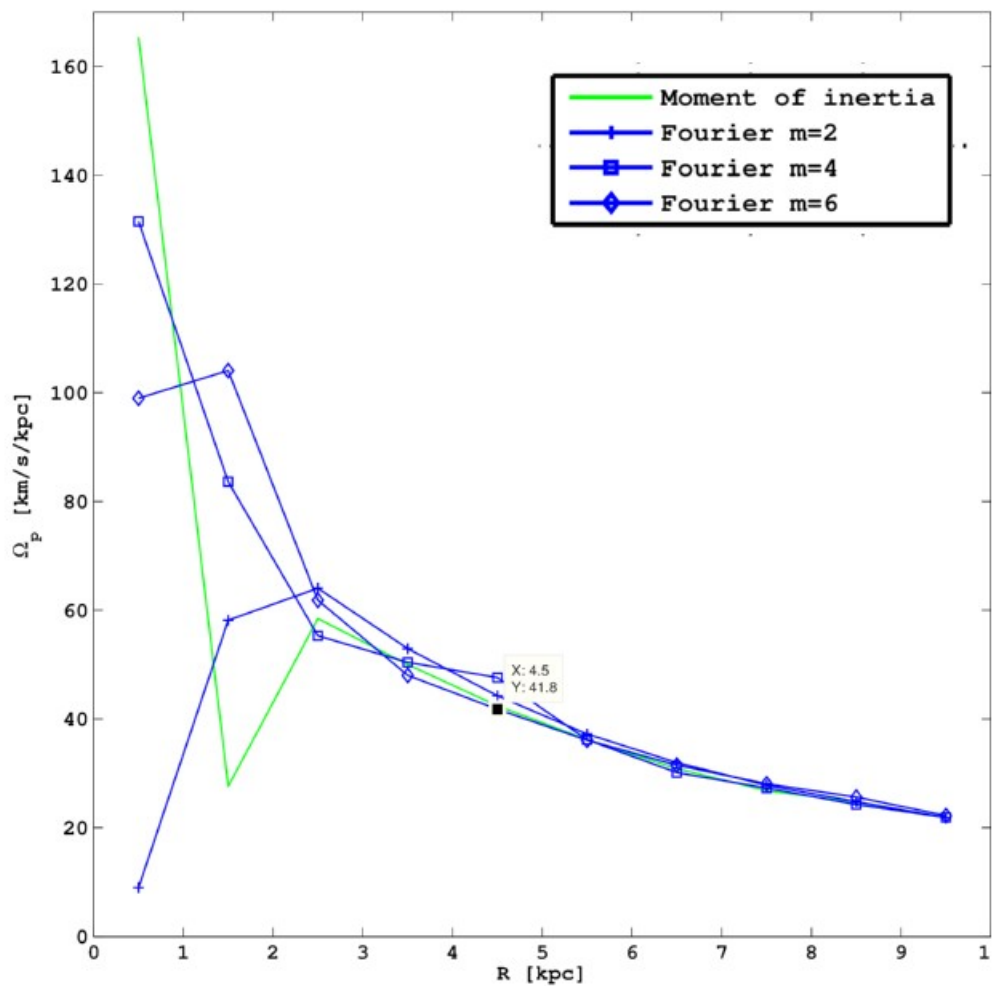
Pattern speed determination

K. Saha & P (in prep)

- Several complementary methods to determine the bar or spiral pattern speeds in
 - A single 3D snapshot of particles (m_i, x_i, v_i)
 - An incomplete MW 3D snapshot from GAIA (w_i, x_i, v_i)
- Methods
 - Based on the usual Fourier decomposition in rings
 - Based on moment of inertia
 - (semi-local TW method)
- Test on the Barcelona sample

Symmetrized data set, rings of $\Delta r=1\text{kpc}$

Clean



Noisy

