

A pre-requisite for understanding either the Galaxy's history or its response to being disturbed by the Sgr dS etc, is knowledge of its current configuration. In an attempt to establish this, we fitted multi-component, self-consistent dynamical equilibria to data from Gaia and APOGEE 17. The exercise sharpens understanding of many aspects of Galactic structure but the resulting fits to data are imperfect to a degree that implies that we have yet to grasp the Galaxy's chemodynamical structure adequately. Next steps towards remedying this situation will be outlined.