

Bar-driven spirals

Heikki Salo¹

¹ Dept. of Physics, Univ. Oulu, Finland

Various theoretical studies of the connection between bars and spirals are reviewed, together with observational surveys which have looked for evidence of bar driven spiral structure. In addition, we analyze the current 3.6 micron data from S4G (Spitzer Survey of Stellar Structure in Galaxies) and quantify the density and gravity potential perturbations associated with bars and spirals, as a function of galaxy morphological type and stellar mass.