

The likelihood of bars in galaxies

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I will report on ongoing work using several ways to assess whether the fraction of disk galaxies being barred is influenced by the stellar mass of a galaxy, its redshift, and the environment it resides in. This complex question is hampered by considerations about sample size, various samples having different ranges in stellar mass, etc. which may well influence the results. In one study, we find that the cluster environment seems to lower the bar fraction for low stellar mass galaxies. In another study, we are considering the bar likelihood based on Galaxy Zoo data.