

Differences in central (gaseous and stellar) metallicities between barred and unbarred galaxies

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Abstract

Numerical simulations predict that bars play an important role in secular evolution of galaxies, inducing gas flows to the central regions of the disc. This gas inflows, contributing to central star and bulge formation. This processes would modify the gaseous and stellar metallicities, but previous results found in literature are confusing and contradictory. In this work we do not find significant differences, but we see different trends in early and late type galaxies. We also find an explanation to the discrepancies found among other authors.

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