

Modelling the spatially resolved star formation history and radial flows in CALIFA disk galaxies:

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Spatially resolved spectroscopy of galaxies coupled to detailed stellar population synthesis modelling allows to put important constraints on star formation and stellar/gas metallicity buildup histories. However, various radial mixing phenomena related to the presence of spiral arms and bars intervene to influence the mass and metallicity radial profiles. In this contribution, we use the spatially resolved star formation history as deduced from disk galaxies of the CALIFA survey and interpret it by means of N-body gas dynamical simulations, trying to quantify the role of migration processes in redistributing mass and metallicity across the galactic disks.