

Unsupervised classification of galaxy spectra up to $z \sim 1.2$. Towards galaxy spectral evolution ?

mercredi 15 octobre 2025 12:10 (30 minutes)

I will present our results of spectral galaxy classifications from GAMA and VIPERS surveys in the nearby universe and up to $z \sim 1.2$ using an unsupervised method called Fisher-EM. This method is particularly well-suited to high-dimensional parameter spaces as is the case of galaxy spectra. Our approach enables us to highlight classes of galaxy spectra that allow to refine the bimodal distribution of galaxies and build an evolutionary tree up to $z \sim 1.2$.

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