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Densitysplit for the DESI BGS

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The Bright Galaxy Survey (BGS) is the densest galaxy sample of the DESI project, and the closest in redshift range ($z<0.2$). At such small redshift, the constraint on cosmological parameters is dominated by the "cosmic variance", a statistical error due to the small volume of universe considered. Alternative clustering analysis methods, such as Density-Split or Multi-Tracer analysis have shown a clear improvement on those constraints. In this talk, I will present the method, its analysis pipeline using an emulator for the theoretical model in the cosmological inference and preliminary results for the DESI BGS.

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Classification de Session: COLOURS Workshop