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Clues from Q –A null test designed for line intensity mapping cross-correlation studies

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In a future where multiple spectral lines have been mapped over the same cosmological volume, one can imagine not only performing cross-correlations to extract joint information between lines, but also as a tool for checking self-consistency of results. This can be particularly important given uncertain radiative transfer properties of various spectral lines that are only now beginning to be mapped, amongst other modelling concerns. In this talk, we illustrate how a combinations of cross power spectra can be used as a data-driven approach to verify the validity of linear biasing models, testing rather than assuming commonly used “first order” models for large scales.

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