## 28th Texas Symposium on Relativistic Astrophysics



Contribution ID: 399 Type: Talk

## Relativistic effects with cross-correlations

Monday 14 December 2015 14:42 (21 minutes)

I will discuss the galaxy clustering in a relativistic framework in terms of observable quantities, i.e angles and redshifts. A relativistic description includes terms beyond the Kaiser approximation (doppler effects and galaxy evolution), gravitational potentials and integrated terms (cosmic magnification, integrated Sachs-Wolfe and Shapiro time-delay). These terms are currently neglected, but they might play a role in future surveys which probe larger scales. I will show that by correlating different probes, or by using the so-called multi-tracer technique, some relativistic effects could give a non-negligible contribution to the galaxy clustering observables.

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