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Sub-mm Galaxies Magnification Bias

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An unambiguous manifestation of the magnification bias is the cross-correlation between two source samples with non-overlapping redshift distributions. In this talk I will present a couple of examples of measured cross-correlation signals using a background sample of H-ATLAS galaxies (SMGs) with photometric redshifts $z > 1.2$. The SMGs characteristics help to boost the sensitivity improving the statistics and allowing us to split the lens sample in different redshift bins to perform a tomographic analysis. Altogether, these promising results suggest the SMGs Magnification Bias as a new interesting tool for studying the mass distribution inside/around the lenses.

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