

[Teaser] DES Year 3 : cosmological constraints from galaxy lensing and clustering

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The Dark Energy Survey has scanned 5000 square degrees of the southern sky to assemble a catalog of over 100 million galaxy shapes in Year 3 data. We combined it with catalogs of the positions of “lens” galaxies with accurate redshifts to measure three two-point functions : cosmic shear (shape-shape), galaxy-galaxy lensing (shape-position) and clustering (position-position). In this talk, I will summarize the results of this “3x2pt” analysis in terms of cosmological constraints, their robustness to modelling assumptions and systematic effects, and finally their internal consistency across probes, redshifts and scales.

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