

Cosmological analysis of Dark Energy Survey Year 3 weak lensing and clustering data: lesson learnt and challenges

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I will describe the recent cosmological analysis of weak lensing and clustering data from the Dark Energy Survey 3 years of observations and show the powerful resulting constraints. I will then give my perspective on lessons learnt from this analysis and challenges for the LSST cosmological analysis of these probes, especially focusing on the issue of parameter estimation. This step is indeed computationally intensive and can therefore be a roadblock for the exploration of cosmological models by LSST. I will present results from work done in DES comparing different samplers and my work to optimize this exploration.

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