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## Recent results on cosmic shear

*Thursday, October 15, 2020 11:00 AM (45 minutes)*

I will present some results from the past 2-3 years of cosmic shear analyses. Current surveys (KiDS, DES, HSC) focus on understanding the recent tension on the structure growth parameter  $S_8$  found between the CMB and the weak-lensing probes. This is done by testing cosmological models beyond Lambda CDM, carefully studying every possible systematic bias, and re-analyzing and combining the different team results. In the meantime we are preparing for the next generation of cosmic shear surveys: Euclid, Vera Rubin Observatory (formerly LSST), and Nancy Grace Roman Telescope (formerly WFIRST). A growing number of cosmological forecasts now include new non-Gaussian estimators that outperform the standard two-point statistics traditionally used in cosmic shear studies.

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