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New Probes of Large-Scale Structure

Tuesday, 20 April 2021 15:00 (1 hour)

Progress in cosmology over the past few decades has been quantified by the extent to which we can accurately measure "two-point functions"such as the power spectrum of galaxies; the shear-shear- correlation function; galaxy-galaxy lensing; and most famously the C_l's of the anisotropies in the cosmic microwave background. New statistics are emerging though that offer potential to infer even more information about the universe. I will open by asking your opinions about what information is most important that is not listed above. Then, I will give my opinion and share some proposals for extending this relatively new class of statistics to learn about the large-scale structure of the universe.

Presenter: Prof. DODELSON, Scott (Carnegie Mellon U.)