

Cosmology from Large Galaxy Surveys

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The goal of these lectures is twofold: (1) to review how dark matter, dark energy, and fundamental physics are constrained by measurements from large-scale structure surveys, and (2) to introduce statistical techniques that are widely used in cosmology. For the former goal, I will give an informal review, building upon the physical foundations introduced by Fabian Schmidt in his lectures. For the latter, I will focus on some of the most useful statistical techniques, then provide a few practical "from scratch" exercises that the students will have an option to complete on their own.