

Angular and redshift issues for large galaxy surveys

Tuesday, September 10, 2013 2:40 PM (20 minutes)

Upcoming large area photometric surveys face many challenges. I will discuss two of the major issues: photometric redshifts and angular selection uncertainties.

Because of the intrinsic inaccuracy of photo-z's, they cannot be used directly in cosmological analysis unless their uncertainties are precisely quantified. I will discuss recent results on spectroscopic follow-up requirements and strategies needed to characterize the photo-z error distributions as well as potential ways to alleviate the requirements.

In the second part of my talk, I'll present a formalism for quantifying the requirements on our understanding of the angular selection of surveys for cosmological constraints I'll show examples of the bias in cosmological parameters due to errors in photometric calibration and dust extinction.

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