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Modeling shot noise in galaxy clustering statistics

The precision to which we can constrain cosmological parameters is limited by sampling variance and shot noise. I will discuss the extent to which systematics in the shot noise modelling affect measurements of GR projection effects and fNL with the multi-tracer technique, and how these measurements could be optimized. I will also present measurements of the halo shot noise in halo bispectra along with theoretical predictions based on the halo model.

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