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## Constraining baryon feedback and cosmology with joint-probe analyses

*Thursday, 11 April 2024 14:20 (25 minutes)*

“Future weak lensing surveys aim to probe the matter distribution far into the non-linear regime. At these non-linear scales, weak lensing is sensitive to the effects of galaxy formation on the matter distribution, such as the redistribution of gas due to feedback from active galactic nuclei. In this talk, I will show how our models can be calibrated by including probes that are sensitive to the distribution of gas in joint-probe analyses, demonstrated on a joint analyses of cosmic shear and shear-tSZ cross-correlations between KiDS-1000 and Planck.

I will also touch on ongoing efforts within LSST DESC to build an assessment framework for models that mitigate baryon feedback.”

**Presenter:** TROESTER, Tilman