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## **Multi-band image simulations to unite the shear and redshift calibrations for weak lensing surveys**

*Monday 30 May 2022 18:05 (15 minutes)*

Weak gravitational lensing, the deflection of light rays caused by the inhomogeneous matter distributions, has been a powerful tool for observational cosmology. While promising in the application, it is demanding to measure the weak lensing signals to the desired accuracy in practice. With the ever-growing statistical powers of weak lensing surveys, it is critical to address any potential systematic uncertainties for reliable outcomes. In this proposed talk, I will present some recent developments in the calibration techniques we conducted in the kilo-degree survey. Specifically, I will introduce the multi-band image simulations we built to calibrate both shear and redshift measurements.

**Presenter:** LI, Shun-Sheng (Leiden University)

**Session Classification:** Parallel Session: Galaxies & Cosmology