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Higher-order statistics in cosmic shear

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The weak gravitational lensing effect is a powerful tool to study the structure and evolution of our Universe and, according to the Dark Energy Task Force, one of the most promising methods to constrain the equation of state of dark energy. In this talk, I will present two higher-order shear statistics: the third-order aperture masses and persistent homology. I will discuss their potential uses, their advantages and disadvantages, and preliminary results from their application.

Presenter: HEYDENREICH, Sven