

Contributed Talk

Splinter Euclid

## HOW ACCURATE ARE GRAVITATIONAL LENSING SIMULATIONS?

Stefan Hilbert<sup>1,2</sup>, Alexandre Barreira<sup>3</sup>

<sup>1</sup>*Exzellenzcluster Universe, Boltzmannstr. 2, 85748 Garching, Germany*

<sup>2</sup>*Ludwig-Maximilians-Universität, Universitäts-Sternwarte, Scheinerstr. 1, 81679 München, Germany*

<sup>3</sup>*Max-Planck-Institut für Astrophysik, Karl-Schwarzschild-Str. 1, 85748 Garching, Germany*

The full science exploitation of Euclid requires very accurate predictions for key observables such as the gravitational lensing shear correlation functions. I present results from our project on the accuracy of numerical simulations of gravitational lensing, including a comparison study of various simulation codes in current use.