## Romain Paviot, CEA Saclay

## March 2024

The Euclid Stage IV survey will observe the shape of billions of galaxies. This will enable us to impose unprecedented constraints on cosmological models. With such precision, we need to be exact about observational and modeling systematics to not be dominated by these uncertainties.

Intrinsic alignments (IA) are one of the main sources of contamination in weak lensing analysis. IA induces a shape correlation indistinguishable from cosmic shear, due to the interaction of galaxies with their local gravitational field. I will do a pedagogical review of IA, and I will describe different methods that can be used to better understand and constraint this effect.