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Modeling Atmospheric turbulence for optical wide field surveys in astronomy

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Atmospheric turbulence is one of the significant problems to get unbiased flux and shape measurement on a ground-based experiment as the Vera Rubin Observatory. Indeed, atmospheric turbulences is one of the main arguments to get an unbiased flux and shape from space as Euclid will do. In this talk, I'll present one solution to take into account Atmospheric turbulences for the current ground-based experiment. I'll present the solution developed in parallel for the Point Spread Function modelling of the Dark Energy Survey and the astrometric solution of the Hyper Suprime Cam which is using Gaussian processes to modelled the spatial variation due to the atmospheric turbulence.

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