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Precision measurements of cosmic shear fields using weak gravitational lensing for dark energy search

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Dark Energy is one of the most intriguing questions in the field of particle physics and cosmology. We expect the first light of Hyper Suprime Cam (HSC) at the Subaru Telescope on top of Mauna Kea in Hawaii island in 2012. HSC will measure the shapes of billions of galaxies precisely to construct the 3D map of the dark matter in the universe, characterizing the properties of dark energy. We will discuss many aspects of the latest data processing pipeline built for HSC and other experiments in the field of observational cosmology.

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