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Imaging dark energy at Subaru and Rubin.

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Cosmic shear refers to the subtle distortion of distant galaxy shapes due to the spatial matter density fluctuations between these galaxies and the observer. From these measurements, one can constrain both the expansion history and the evolution of density perturbations in the late universe. Confronting these two aspects allows one to test GR on large spatial scales, and, assuming GR, and to constraint the nature of Dark Energy. I will describe some of the challenges of the probe, the analyses performed on the data of the Subaru Strategic Program, and the approaches being developed for Rubin/LSST. I will also review the status of the high- z supernova survey on the Subaru and HST.

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