

Mass and light distributions of massive galaxy clusters with DECam

Friday, 16 August 2013 16:18 (24 minutes)

DECam is the newly commissioned imager of the Dark Energy Survey (DES) with a very large Field-of-View (FoV) of more than 3 square degrees. During the DES science verification phase, we targeted four massive galaxy clusters visible from CTIO to measure their weak-lensing effect. We will present some of the first science-quality images from DECam and present the photometry and shape analysis that yielded mass and light maps of each system. Because of the large FoV, these maps allow us to determine the connection between mass and light on unprecedented scales.

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Session Classification: Cosmic Frontier

Track Classification: Cosmic Frontier