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Galaxy Cluster Science Results with the Dark Energy Survey

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Constraining LambdaCDM cosmology with galaxy cluster abundance is one of the fundamental goals for the Dark energy survey (DES). Based on observations collected in the first year, DES has identified many thousands of clusters out to redshift 1.0. Weak lensing and multi-wavelength studies with X-ray data and cosmic microwave background are performed to provide inputs to the cosmology constraint analysis. Astrophysical studies to understand cluster evolution over time is yielding fruitful results. This presentation will present DES science results from galaxy cluster cosmology and astrophysics studies.

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