

# JOINT TUFTS/MIT COSMOLOGY SEMINAR

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## *Cosmology from the full Dark Energy Survey*

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The Dark Energy Survey (DES) was initially conceived over twenty years ago, aiming to measure Dark Energy through multiple cosmic probes. Conducted at the 4m Blanco Telescope in Chile, DES covered roughly 5000 sq. deg., with observations concluding in 2019. Earlier this year, we published our final (Year 6) analysis of weak lensing and galaxy clustering. In this talk, I will describe DES and our methodology for measuring cosmic structure using the positions and shapes of 140 million galaxies. I will discuss our constraints on Dark Energy from DES alone as well as when combining with other data sets (e.g. DESI BAO and CMB). I will also discuss interesting findings on baryonic feedback and intrinsic alignments, two important astrophysical effects. I will conclude with a brief look ahead at the Rubin Observatory LSST and the Roman Space Telescope

**Tuesday, April 28, 2026, 2:30 pm**

**574 Boston Ave, Room 310**

**Tufts University**

Refreshments at 2:00 outside room 304