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Dark Energy Dynamics and Data

Wednesday 25 June 2025 11:00 (40 minutes)

Dark energy away from a cosmological constant Λ –like early universe inflation that ends –can be understood in terms of well defined physical behaviors. These guide dark energy into thawing or freezing classes, with w_0 – w_a arising as a physical calibration of the phase space. Other regions of phase space –zones of avoidance –require violation of some basic principle. We explore these cases, drawing a direct analogy with how non-Gaussianity in inflation can add physics beyond standard dynamics. We examine the physics implications if the best fit of current data is taken to be truth.

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