Title: Falsifying Paradigms for Cosmic Acceleration

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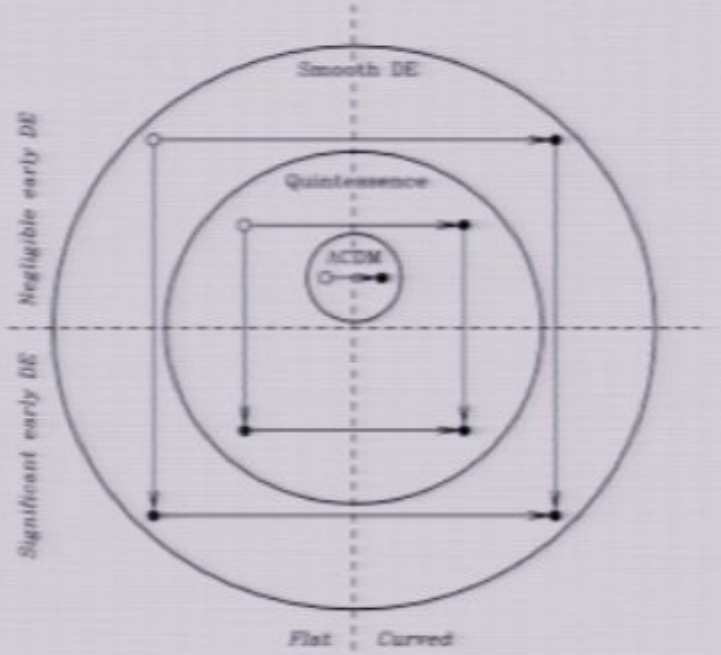
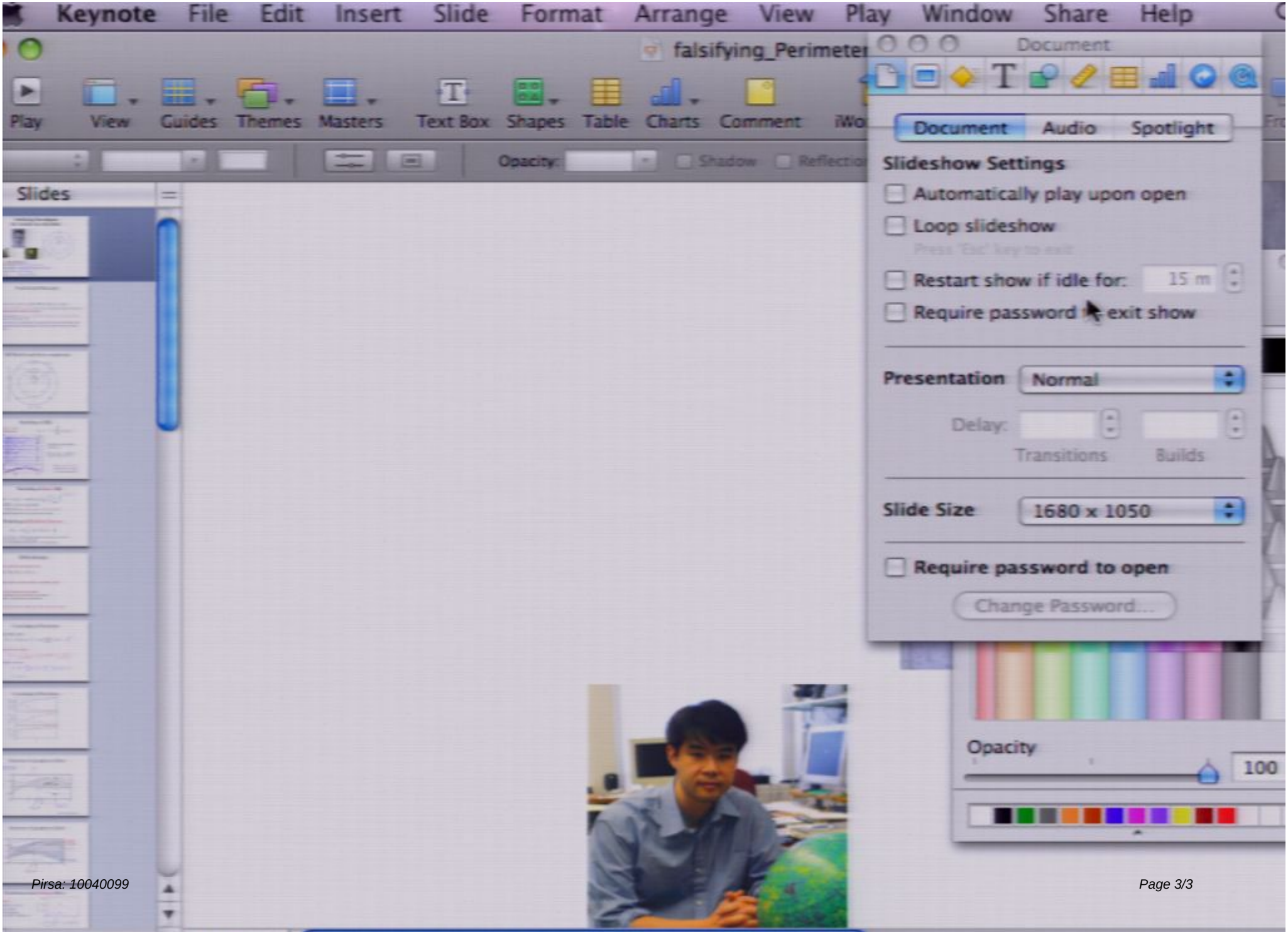
Abstract: How can we rule out whole classes of dark energy models? And what quantities, at what redshift, and with what accuracy, should be measured in order to rule out these classes of models? I present answers to these questions by discussing an approach that utilizes the principal component parametrization of dark energy. I show results based on current data, and future forecasted data from SNAP and Planck.

Falsifying Paradigms for Cosmic Acceleration



Mortonson, Hu & Huterer:

PRD, 79, 023004 (2009) - method, and future data
PRD, 80, 067301 (2009) - hiding DE transitions at low z
PRD, 81, 063007 (2010) - current data
arXiv:1004.0236 - Figures of Merit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