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DESI Project Document 7113-v1

DESI Research Forum (22 Nov 2022): On the origin of the lensing is low effect

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Username:**Password:****Abstract:**

Speaker: Jonás Chaves-Montero

Title: "On the origin of the lensing is low effect" Abstract: It is now well-established that Λ CDM-based models, when optimized to describe galaxy clustering, overestimate gravitational lensing around massive galaxies by about 30%; the so-called lensing is low problem. Using a state-of-the-art hydrodynamical simulation, we show that this discrepancy reflects shortcomings in standard halo population models rather than tensions within the Λ CDM paradigm itself. We conclude that more sophisticated models are required for joint analyses of galaxy clustering and galaxy-galaxy lensing.

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