

ExtractoDAO Labs Presents a Scientific Breakthrough Resolving the Hubble and S_8 Cosmological Tensions

Open, peer-reviewed cosmology research reveals a reproducible solution to the Hubble and S_8 tensions using transparent numerical methods and public code.

CURITIBA, PARANÁ (PR), BRAZIL, November 28, 2025 /EINPresswire.com/ -- The team at

“

Independent validation is the core of scientific integrity. By releasing every line of code and dataset, we invite scrutiny to confirm or challenge these results.”

Joel Almeida, Scientific Director at ExtractoDAO Labs

ExtractoDAO Labs, led by cosmologist Joel Almeida, has submitted for peer review the results of the Dead Universe Theory (DUT) — a new gravitational framework that simultaneously resolves the two most significant observational discrepancies in modern cosmology.

All numerical results presented in this announcement are fully reproducible through publicly available scientific code. Independent researchers can verify the findings using the exact same algorithms, parameters, and datasets released by ExtractoDAO Labs on GitHub and Zenodo. This ensures

transparent, independent validation of the proposed resolutions to the Hubble tension and the S_8 growth-rate anomaly — fully aligned with modern standards of open scientific reproducibility.

- The Hubble Tension — disagreement between local expansion rate and CMB-inferred values
- The Growth/ S_8 Tension — observed structure formation slower than Λ CDM predictions

Using fully open, independent, and reproducible scientific codes, DUT achieves:

$$H_0(\text{local}) = 73.52 \text{ km/s/Mpc}$$

$$H_0(\text{CMB}) = 67.39 \text{ km/s/Mpc}$$

$$f\sigma_8(z = 0) = 0.4224$$

$$\text{Structural suppression} \approx 10\% \text{ at } z < 1$$

$\Delta\chi^2 \approx -211.4$ relative to Λ CDM (same datasets)

These results — the focus of more than \$14 billion USD in global scientific efforts over the past decade — arise naturally from one self-consistent physical parameter set.

Dual independent numerical engines — scientifically verifiable

DUT simulations combine accessible computation with HPC-grade reproducibility:

- A) COSMOMC-DUT (Python RK4) — real-time scientific visualization
- B) CLASSICMC-DUT (Fortran/C++) — deterministic high-performance execution

All results can be directly reproduced by any research group:

□ Public and permanent repositories:

1: COSMOMC-DUT (Python interface)

<https://github.com/ExtractoDAO/COSMOMC-DUT/blob/main/COSMOMC-DUT.py>

2: CLASSICMC-DUT (scientific engine)

<https://github.com/ExtractoDAO/COSMOMC-DUT/blob/main/CLASSICMC-DUT.py>

3: Zenodo — validated code and outputs

<https://zenodo.org/records/17752029>

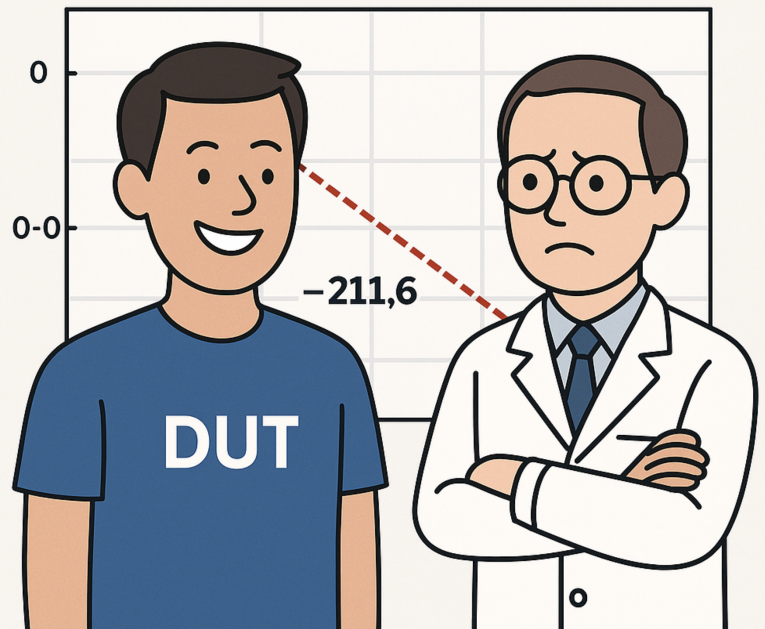
4: Official scientific preprint

<https://www.preprints.org/manuscript/202507.1408/v1>

Open Science — International Verification

All theoretical equations, numerical solvers, and dataset calibrations are fully transparent. Every numerical claim in the manuscript can be reproduced exactly using the public code.

DUT resolves Λ CDM tensions: $\Delta\chi^2 = -211,6$ using identical datasets



This work marks the beginning of a global effort to independently test whether DUT can supersede Λ CDM across the full cosmic dataset.

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