

OMNISCALE GRAVITY — 1-PAGE TEASER (V4.6)

Christian (Cruz) deWilde and ChatGPT-5 (Thinking & Pro)
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ONE POTENTIAL, CONSERVATIVE SCOPE

Identify $\Phi \equiv c^2 \chi$ and use the weak-field/1PN metric with $\beta = \gamma = 1$ as a bookkeeping device on a flat background. Use the same Φ for light *and* motion; GW sector is conservative ($v = c, +/\times$ only; no scalar dipole). Low- g closure A/B keeps the field scalar and curl-free in general.

STATUS OF SECTORS (MINI)

Sector	Now	Next
χ & Φ	Map $\Phi = c^2 \chi$; closure A/B	Derive from action
Metric 1PN	$\beta = \gamma = 1$	Derive including g_{0i}
g_{0i}	Assume GR ($-4V_i/c^3$)	Predict Lense–Thirring
GWs	$v = c, +/\times$ only	Maintain pulsar/GW safety

DECISIVE FALSIFIERS

Frame dragging; PPN γ, β ; $v_{\text{gw}} \neq c$ or extra GW polarizations; no LOS-environment correlation of H_0 after systematics.

WHY IT MATTERS

One shared Φ ties orbits, lensing, and time delays; fewer knobs \Rightarrow stronger tests.

FIGURES

