2) Fix the sign + "repulsive condition" with one explicit convention

Right now the doc says repulsive curvature depends on $\tilde{\kappa} < 0$ (good!), but Stage 2.5 needs a single boxed statement:

Deliverable: one boxed convention like:

- metric signature $(-,+,+,+$ or $+,-,-,-)$
- perfect-fluid form of $T_{\mu\nu}$
- which sign of $\tilde{\kappa}$ yields negative effective pressure

This is where reviewers try to poke holes first, so we make it un-pokeable.

3) Turn the falsification criterion into a full measurement spec

You *already* have the killer asset: an explicit falsification threshold (Δp sensitivity, qubit count, run count) Gravity from Information_ A Sta... . Now we make it "lab-readable."

Deliverable: a one-page "Experiment Spec Sheet" with:

- primary observable: Δp or equivalent force proxy
- background budget list (EM, thermal gradients, Casimir, vibrations)
- control toggles (coherent ↔ decohered) Gravity from Information_ A Sta...
- required significance + trial count Gravity from Information_ A Sta...
- how Δp maps to a bound on $|\tilde{\kappa}|$ Gravity from Information_ A Sta...

This is where Stage 2 becomes *something a lab can implement.*

4) Replace “κ is bounded by X” with a clean “bounds table” appendix

Your doc already does this correctly: “upper bounds, not measurements” Gravity from Information_ A Sta... . Stage 2.5 is just making it citation-clean and conservative.

Deliverable: Appendix A:

- bounds-only language
- clear mapping: experiment → observable → inferred bound on $\tilde{\kappa}$ Gravity from Information_ A Sta...

Even if every bound is later revised, the *method* stays solid.

5) Quarantine P/E/I/G into a “formal analogy” section

Your Stage 2 doc already formalizes P/E/I/G as constrained flow + Liouvillian steady state + negentropy

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Deliverable: one section header:

> “P/E/I/G as a cross-domain dynamical template (non-ontological extension)”

This keeps your big vision *and* keeps reviewers from calling it “category error.”

6) Convert to a clean LaTeX / arXiv-ready format

You asked earlier about formatting — now is the payoff.

Deliverables:

- a LaTeX version with numbered equations, consistent symbols, and a short abstract
- a 1-page "Key Equations" appendix (you already have this structure)

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Once it compiles cleanly, you can share it instantly with serious people.

7) (Optional but powerful) Add a "Null Result Value Proposition"

This is a credibility rocket.

Deliverable: a paragraph that says:

- "Even if null, this experiment sets the strongest lab bound on information–geometry coupling."
- "That result constrains a whole class of emergent gravity models."

This makes the project valuable even if $\tilde{\kappa} = 0$ at lab scale.