Public release copy. Source: `33_dream_question_6.md`, Gravity Frontier Research, David Vávra, Independent Researcher, Prague. SHA-256 of the Markdown source: `e775be40fd66001142171d6d754efab5ab4ae1a37c1c7fe90a583369d3a32001`. First published at vavradev.com/research on 2026-11-15. The Markdown file published beside this PDF is byte-identical to the source.

Dream Question 6: Decision Document (the gravity-only pass)

v1.0 (2026-11-11): the gravity-only pass ordered by the owner's words of record (2026-10-28 and 2026-11-11): "this is the area of the quantum gravity which we are trying to solve and figure it out how does gravity work"; "where should we continue our research and get some progress how the gravity works?" Two seeds were approved for examination, to be tested and not assumed: S1 (exact quantum gravity in 2+1 dimensions as a new instrument) and S2 (the experiment side). Seven lane scouts, among them the owed post-meeting sweep and a bigness adversary, then this judge.

Altitude and result, first. No FIELD-or-better discovery front was found on any exact finite instrument, old or new: the third consecutive survey with that finding (docs 29, 31, this one). Both seeds are decided at freeze as posed, each by several independent lanes: every one of S1's three questions by a definition, an axiom of the instrument, a closed form, a theorem with a name or one printed paragraph (Carney, arXiv:2108.06320), and S2's first question by a two-line lemma, the committed saturation map and a printed exact factorization (Matsui, arXiv:2610.35253, 2026-10-26). By the scouts' own count this is the lesson's sixth instance, and it recurred on four candidates in one afternoon, at scout cost. What the pass did produce came out of its pre-checks: (i) one new exact statement on the experiment side (candidate RELATIVE), which the judge's own probe then reduced to a three-line lemma with a closed form, and whose physical principle the judge's nets found in print since 2021 for the Gaussian setting (Datta and Miao, arXiv:2104.04414): a correction of the scout's occupancy clause, reported first; (ii) a control universe for Papers B, M and F (exact 2+1 gravity), decided corollary by corollary; (iii) a commutativity theorem to finish in causal-set quantum gravity (QSG-NC), to which the judge adds a structure lemma by hand. **RECOMMENDED, at NOTE grade and never as a discovery front: program RELATIVE, "what shared noise cannot erase": which part of gravity's entangling action survives the noise that falls on both masses alike, which law of gravity that part reads at thirty micrometres, and what it certifies** (section 5). The judge's and the adversary's number for a Theorem-W-altitude gravity sentence from either seed within a cycle is about 3 percent.

Judged 2026-11-11 (about 17:10 to 18:00 CET) from seven commissioned scout reports: `scout_dq6_3d_literature.md` (4 candidates; 74 full texts; probes P1 to P7, A1 to A6), `scout_dq6_3d_instrument.md` (4 candidates; an exact SU(2)_k recoupling engine; seven refuted forecasts of its own), `scout_dq6_experiment.md` (4 candidates; an eleven-row decided-at-freeze ledger; probes A to G), `scout_dq6_perimeter_sweep.md` (the owed post-meeting sweep; 2 candidates and one struck), `scout_dq6_other_instruments.md` (5 candidates; seven instrument families; fourteen addenda), `scout_dq6_corpus.md` (6 candidates; the debts priced; probes A to C), `scout_dq6_adversary.md` (3 survivors; both seeds killed; probes P1 to P7). 28 raw candidates. Inputs read in full: README.md (index, paper package, open fronts); `00_DREAM_QUESTION.md`; doc 29 sections 0, 1 and 3 to 8, with the head of section 2; doc 31 sections 0 and 5 to 8; doc 32 header and section 0; the house procedure `gated-frontier-research-front.md` (whole, with the DQ6 scout variants); the seven scout reports (whole). Read for the format and the axes: doc 22 section 6.0 and 6.1 (head), doc 26 section 2 (head). Read for the pre-checks: `lambda_pilot/lp_core.py` (conventions, `Space`, `Symplectic`), `lambda_pilot/l5_open_rows.json` (as data), `scout_dq6_experiment_probe/probe_E_paths.py`, `probe_A_shortrange.py` and their logs, the arXiv HTML of 2603.25503 (grep grade, `dq6_judge_probe/read_2603.25503.log`), thirteen full texts returned by the judge's nets (grep grade, scratchpad only), `analysis/arealaw_lattice.py` line 1908. Not read by the judge: the papers' sources (the scouts' transcriptions of Paper B's definitions were used), docs 22 and 26 beyond the heads named, the scouts' probe scripts other than those named.

Judge-side computation (judge grade, one leg, not of record; records in `dq6_judge_probe/`, `MANIFEST.sha256` inside). *Every forecast was registered in `registration.txt` (sha256 `d85b2b2ee295e5e61aaae1792d36fff8c26cdcef34d23179317c8ea94768e467`, stamped 2026-11-11 17:30:49.367 CET) before any probe script existed (scripts hashed 17:34:30.998); two dated addenda carry new checks only (`REGISTRATION_ADDENDUM_1.md`, sha256 `7ccdd1c41fa7ec4dd852ba216e179e0143548e9a784f1e03babd1f217d1ed055`, 17:36:28.971; `REGISTRATION_ADDENDUM_2.md`, sha256 `39f2046afaa5a2aaa5c1828dd9ea9e9a62e405571697d77b5ecea770f91b9f3e`, 17:39:24.131). J-A: the band plan certified by own trial division, cross-checked by sympy (a certification, no draw). J-B: the common-mode lemma of candidate RELATIVE as an identity of integer lattices for n = 2 to 8 paths, a closed form at three paths, an exhaustive scan of 248,832 phase tables, 9,300 tables with unequal amplitudes. J-C: what the two rungs of that candidate read of the short-distance law (40-digit arithmetic; the scout's five numbers regressed first). J-D: nine INSPIRE nets and thirteen full-text greps on its occupancy. J-E: a structure lemma for candidate QSG-NC, by hand, its last step machine-checked on two matrix families. J-F: the 42 pinned Farkas functionals of doc 32's pilot, transported over the full affine symplectic group of Z_3^4 (51,840 x 81 maps) onto the genus-one state of candidate TOPO-MAGIC, through an isolated copy of `lambda_pilot/lp_core.py` whose sha256 `9b601ecd...` was verified before import; repeated in exact int64 arithmetic (176,359,680 values). J-G: an encoding contradiction between two scouts' drafted rows. No membership LP was run (a pilot's row). Canon pins: 87 files (every top-level document, the survey JSON, the engine copy's source and its data file, `analysis/arealaw_lattice.py`, two paper sources, the seven scout manifests, six scout probe files) hashed at 17:30:08 and again after the probes at 17:43:33: byte-identical; final pins in section 10. No prime drawn; no committed engine executed in place; no committed file modified; no process left running. This file and `dq6_judge_probe/` are the only artifacts. Bar and format per `00_DREAM_QUESTION.md`, doc 22 section 6, doc 26, doc 29 and doc 31; every claim inherits the standing bans (section 9, last paragraph); licensing is never posting; release is the owner's call.*

The judge's own forecasts and defects, first. No registered forecast of the judge was refuted (J-B1 to J-B5, J-C0 to J-C2, J-E1, J-F0, J-F1, J-G and A-1 confirmed). J-D (0.65: no posting states the two-path against multi-path fact) is confirmed by its letter and qualified against the candidate: the principle behind it is printed (section 5.3 item 3). Defects of this leg: (1) `pins.py` changes directory to the corpus root, so the second pin file was first written to the corpus root and then moved into the probe directory (a new file of this leg; nothing committed was touched; pins compared byte for byte afterwards); (2) the float locate stage of J-F printed BLAS warnings (divide by zero, overflow, invalid value in a matmul, the artefact the DQ5 judge also met), so the whole search was repeated in exact integers under addendum 1 before its

"nothing is negative" statement was kept; (3) addendum 2 widened J-D's reading list after the nets' readout, in the direction that could only refute the forecast; (4) each addendum and the scripts it governs were written by one shell command, registration text first (stamps 0.08 s and 0.05 s before the script hashes); (5) the hand estimates H-C were made on paper before sealing and are registered as hand estimates; (6) one data row of J-B (parallel geometry, four paths, 0.001819 at the scout's three-path parameters) regresses no scout number and carries no verdict; (7) the draft of this document was repaired before its final pins by two count-asserted patchers kept in the probe directory: a direction slip in one sentence (the acceleration requirement lies below, not above, what tabletop isolation gives), an author name cited from memory removed, the model rider of the recommendation made exact (the lemma needs a uniform force and equal spacing histories, not static branches), separators changed to ASCII.

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0. First act: the order of record, the owner's words, the triggers and the sweep

1. **The order of record.** Doc 31 section 8 found that no sentence at the owner's altitude was reachable on exact finite instruments and named two routes: an instrument that does not exist yet, or acceptance of the house's reach. Doc 32 parked LAMBDA on 2026-10-29 with the owner's standing purpose recorded in its bridge lane. The owner then ordered this pass with the words quoted in the header and with two seeds. The pass is gravity-only: a candidate is admissible only if its result would be a sentence about gravity or quantum gravity, stated with its riders; a foundations-only or computation-only front is out of scope. Its admissibility bar is the five-instance lesson (docs 23, 24, 25, 28, 32) with tests (a) to (g) of doc 29, (h) to (l) and (h') of doc 31, and the tests the DQ6 scouts earned today: the named-theorem test, the dictionary test and the antecedent test (adversary), the axiom test and the encoding test (corpus). The judge adds three in section 9.
2. **The seeds, transcribed, with their fate.** S1: "does quantum gravity entangle two masses with no local mediator, and how does Theorem W's mediation disjunction type it" (decided: section 4 item 1); "is the gravitational gate Clifford or not as a function of the level, against Theorem M's exception set and the Freedman-Larsen-Wang universality theorem" (decided in each encoding one can register: item 2); "do the closed-universe, clock-boundary and self-reading results survive in a genuinely diffeomorphism-invariant exact theory" (two axioms and an absent object: item 3). S2: "what a second-generation experiment must measure to separate a non-classical mediator from a direct nonseparable gate" (decided: item 4) "and to split the accounts doc 30a leaves standing" (duties, and the one new statement of the pass: the recommendation).
3. **Triggers.** The perimeter scout ruled the four Adjudicator triggers, KA-3 and KL-2 at scout grade on 2026-11-11: none fired by its letter (MOVW's 2511.07348 still v1; no data and no dated timeline; no pipeline paper; no scoop of Theorem W or M; no ledger; no printed two-qutrit membership). The experiment scout's spot check agrees. The judge re-ran none of them.
4. **The owed post-meeting sweep is discharged at scout grade** (one leg, recordings unwatched, feeds dated to 2026-11-11). What it changes for docs 27, 30 and 32 is in section 8, as drafts for the owner. By the owner's words it gates nothing in this pass.

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1. The merged pool (dedup ledger)

Raw supply: 28 candidates in seven reports, with heavy overlap between the three lanes that built or read the 2+1 instrument and between the two lanes that read the experiment side. Merged: **seventeen distinct rows.** Grades are the scouts' where they graded, the judge's otherwise.

#	merged candidate	sources	fate
1	**RELATIVE: what shared noise cannot erase, and which law it reads** (the common-mode protected part of the gravitational gate; the entangling phase as a second-difference and third-difference probe of the potential at the 2026 design)	experiment 2 (RELATIVE) + experiment 1 (SHORT-RANGE-26)	**RECOMMENDED at NOTE grade** (section 5)
2	**QSG-NC: can spacetime grow with interference** (the transition algebra of quantum sequential growth of causal sets)	other-instruments 1	runner-up 1 and co-runner PRE-Q (a theorem to finish and verify)
3	**CONTROL-2+1: Papers B, M and F on an exact quantum gravity with no local mediator**	corpus K2 (TOPO-EXHIBIT) = 3d-instrument 2 (GRAVITON-FREE EXHIBIT) = 3d-literature 4 (ENCLOSURE-W); adversary riders R-1, R-2	the mandatory corpus-bridge lane of the program (decided corollaries; never a front)
4	**TOPO-MAGIC: what the sum over topologies adds** (with OFF-SHELL as its data lane)	3d-literature 1 and 3	runner-up 3: a data lane for doc 32's bridge; its one cell is open (J-F1) and its gravity reading is contested
5	**FINISH-D** (Paper D, docs 09 and 10; the open cell E-i)	corpus K1	runner-up 4 (a debt with a gravity sentence; the owner's call)
6	**BORROMEAN: the three-body gate of a quantum gravity without gravitons**	3d-instrument 1	exhibit row of lane 3; declined as a front (section 4 item 6)
7	**LEDGER-26 = NULL-CHANNEL** (the rows the 2026 literature forces on the living table; what a run that never shows entanglement still certifies)	experiment 3 = perimeter K1	duty, folded into the owner's G30-2 block (section 8)
8	**E2-REQ = THE PLANCK-MASS WALL, with THE AUTONOMY ROW** (the requirements table; the ceiling of the mass-side discriminator; the size of signature S3)	corpus K4 = adversary 6.1, 6.3	duty rows of the program's mediator column (M-R7); the wall as a theorem is declined (section 4 item 5)
9	**K4-EXCHANGE, with LAMBDA-BRIDGE** (doc 32's hull on states an exact gravity model prepares)	3d-literature 2; 3d-instrument 4	data rows for doc 32's bridge lane; no gravity sentence beyond a gate's output

#	merged candidate	sources	fate
10	**Closed universes of TQFT gravity** (GHOST-GENUS = COMPOSITE-LEVEL; CLOSED-TV; RATIONAL-MW; the struck ONE-STATE-3D)	perimeter K2 = adversary 6.2; 3d-instrument 3; other-instruments 4	declined: natively exact, definition-dependent (section 4 item 7)
11	TRUST-LADDER (the visibility that discharges W6 (ii), step by step)	experiment 4	a row of the table, incremental; its asymptotic part is not a finite problem
12	FINISH-E (Paper E, doc 11; PE-3)	corpus K5	debt, after D
13	OBSERVER CLOSE-OUT (the scope riders, the post-meeting block, Paper G)	corpus K3	owed block, unblocked by the sweep (section 8)
14	2D-HOLO-M2 (the residue of doc 29's runner-up)	corpus K6	a rider: the M1 half is decided by a committed gate
15	EPRL-SMALL (the 4-simplex amplitude as an exact object)	other-instruments 2	declined: an engine without a question; first row decided by its probe
16	CSG-POSTS (the reduced COSMIC-RG)	other-instruments 3	a note, decided in kind
17	EXTREMAL-48 (does pure chiral gravity exist at c = 48)	other-instruments 5	watch: DECISIVE-shaped, no instrument

Scout disagreements, adjudicated. (1) *Which candidate leads.* The two 2+1 lanes each rank a FIELD-lite survivor of their own instrument first (TOPO-MAGIC; BORROMEAN); the corpus lane ranks a debt first (FINISH-D); the adversary and the perimeter lane find no front at all; the experiment lane offers two candidates "with a physics reading" and says plainly that neither is a discovery front. The judge sides with the adversary on altitude and with the experiment lane on direction, for the reason this pass puts first: of all surviving sentences only those of rows 1, 7 and 8 are sentences about gravity in our world; every 2+1 sentence is about a control universe, by the adversary's dictionary test and the instrument scout's own words ("a control world and an exhibit, not a discovery engine"). (2) *Is the two-defect gate Clifford at the Ising level.* The 3d-literature scout drafts for Paper M: "the unique Clifford point is k = 2"; the 3d-instrument scout computes that the which-path gate of two fundamental masses is "the Clifford CZ only at k = 1, and is non-Clifford at k = 2". Both are right in their own encodings (J-G: at k = 2 the fixed-channel phases are -3 pi/4 and pi/4, their difference is pi) and they contradict each other as sentences: **a drafted row without its encoding is refuted as worded**; the corpus scout's encoding test is adopted. (3) *Do two static masses entangle when the cosmological constant is not zero.* The perimeter scout answers "yes, by a closed form" from the classical composition law; three lanes compute or prove an exact null for unlinked labs (isotopy invariance; the instrument scout's monodromy around a neutral pair equal to 1 at k = 2 to 6; the adversary's 125 disjoint trials). The perimeter scout's own text concedes that a hold time is a definition it does not supply. **Ruled: the "yes" is refuted as worded for any registered which-path protocol**; what stands is that the classical total mass depends on the separation, and that in the level-k theory the separation is not an observable independent of the fusion channel. (4) *Was RELATIVE's statement found anywhere.* The experiment scout: "No prior statement of this was found." The judge's nets: the principle is the abstract of Datta and Miao (2021); the path-encoded statement was not found (section 5.3 item 3).

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2. The scoring matrix: every candidate, gravity relevance first

Axes (doc 22 sections 1 and 6.0; doc 26 section 2; doc 29; this pass's order): **GRAVITY** (the sentence about gravity or quantum gravity the result would license, with riders; a candidate without one is out); **BIG** (DECISIVE / FIELD / INCREMENTAL / DUTY); **TRACT** (a certified first computation within one cycle, named); **GROUND** (occupancy and scoop); **INSTRUMENT** (exists or must be built; cost; how it fares against tests (a) to (g)); **PRE-CHECK** (concrete, cheap, discriminating, executed: by whom, with what result); **KILL** (can it fail honestly). "DAF" = decided at freeze, with the decider.

#	candidate	GRAVITY: the sentence, with riders	BIG	TRACT	GROUND	INSTRUMENT and tests	PRE-CHECK (executed)	KILL	fate
1	RELATIVE (with SHORT-RANGE-26)	"Gravity acts on two masses through their relative coordinate alone, so noise common to both erases exactly the quadratic part of the entangling phase from the certificate: a two-path pair is left separable, a three-path linear pair keeps an entangled state governed by one third-difference invariant J, a parallel pair	INCREMENTAL as discovery; NOTE; DECISIVE-shaped only inside D1	HIGH (days): the lemma by two legs to n = 12; certified cells	principle OCCUPIED (2104.04414); path-encoded statement not found (9 nets, 13 texts); the short-range plot OCCUPIED (2609.22501, 2610.25994); scoop MEDIUM to HIGH	exists (committed gate family, thresholds and shot-count conventions; scout and judge probes); (a) passes; its theorem fails the short-lemma test: DAF by the judge's lemma	judge J-B (lemma: L_ppt = L_inv, n <= 8; closed form; 258,132 tables), J-C (ladder), J-D (occupancy)	good: prior art; the protection may not pay; the window may close	**RECOMMENDED, NOTE grade**

#	candidate	GRAVITY: the sentence, with riders	BIG	TRACT	GROUND	INSTRUMENT and tests	PRE-CHECK (executed)	KILL	fate
		needs four paths; at the 2026 benchmark the unprotected and the protected reading are different functionals of the law of gravity between 30 and 70 um, below the 52 um at which gravity has been measured." Riders: section 5							
2	QSG-NC	"In causal-set quantum gravity a sequential growth law with operator-valued amplitudes obeying the Markov sum rule, operator-level covariance and linear Bell causality, in any of the three orderings, is commutative in every finite dimension: no interference between growing causal sets beyond the product form" (or: an explicit non-commutative example). Riders: one approach; the reading of one rule of one paper; invertible operators; nothing about the continuum	INCREMENTAL (FIELD-lite inside causal sets); NOTE	HIGH (days): an independent generator; exact elimination in dimension 3	two authors, one paper, one citation; scoop LOW to MEDIUM	scout-grade generator (170 lines, validated on complex sequential growth); 3 to 5 days to pilot grade; (a) passes; first question DAF at dimension two (scout); the rest falls to short lemmas (scout T-S; judge H-E)	scout (14 addenda); judge H-E by hand, last step machine-checked (J-E1); the paper's definition of a Bell pair read (it is not restricted to pairs with a gregarious member)	good: typed outcomes incl. SURVIVOR and READING-DEPENDENT	runner-up 1; co-runner PRE-Q
3	CONTROL-2+1	"In exact 2+1 quantum gravity a BMV pair in disjoint labs is exactly null although gravity is quantized; linked masses are entangled by a direct gate with no mediator in the sense of Definition M; the charge-traced gate never leaves the Clifford hull while the fixed-charge gate is	DUTY-plus (positional value for Papers B, M, F)	HIGH (2 to 3 agent-days to record grade)	facts textbook; typing against a mediation definition not found; no race	three scout engines exist (seconds); every conjunct DAF: tests (d), (g), the axiom, encoding, antecedent and dictionary tests	four lanes independently; judge J-G (encoding)	cannot fail as a duty; fails only by wording	bridge lane M-R6

#	candidate	GRAVITY: the sentence, with riders	BIG	TRACT	GROUND	INSTRUMENT and tests	PRE-CHECK (executed)	KILL	fate
		Clifford exactly on a divisibility set." Riders: Euclidean, compact group, level k; no Newtonian limit, so nothing about 3+1; external which-path labels; every row a corollary; Carney, Ashtekar and the link-state literature cited first							
4	TOPO-MAGIC (with OFF-SHELL)	"In abelian TQFT gravity at level 3 every topology contributes a stabilizer state and the sum over topologies does not; at genus two and above the summed state lies outside the constructible (CNC) hull; at genus one it is [hosted or not]." Riders: a Z_3 toy; "gravity" in the Dymarsky-Shapere sense; a formal bulk vector: under alpha-superselection the boundary ensemble carries no resource at all (the scout's own KT-1)	FIELD-lite on a toy; gravity reading contested	HIGH (five LP rows, hours)	framing HIGH and moving (27 citers; 2611.02515); in-class none	committed LAMBDA engine; (a) passes; higher rung DAF (Lemma C); first cell open	scout A1, A5 (neighbour and higher genus decided); **judge J-F1: the genus-one row is not decided by any of the 42 pinned certificates under the full Clifford group (exact minimum +9/128)**	KT-1 (formal object), KT-2 (laws fall to Gauss sums), scoop	runner-up 3 (data lane of doc 32)
5	FINISH-D	the boundary-energy completeness and frozen-sector sentence of docs 09 and 10 (corpus scout section 3), riders as committed	FIELD-minus, already DECIDED; a debt	3 to 4 agent-days; E-i with its pre-check	conjunction CLEAR at 2026-08; re-sweep owed	committed engines; hazard: `arealaw_lattice.py` line 1908 writes to an absolute canon path (confirmed by the judge)	read, not run (scout); E-i's leading branch is corollary-shaped	a verdict tuple fails on the port	runner-up 4
6	BORROMEAN	"Two masses that never link are entangled only through a third and only where gravitational holonomies fail to commute." Riders as row 3, plus: fusion-tree mediator states; no 3+1 sentence	FIELD-lite at best	HIGH (the engine runs in seconds)	mechanism in the link-state literature (1611.05460); traces of pure-braid commutators are link invariants of a natively exact community	exists; in dimension two the exception set is a two-line condition (twist ratio -1 and a 6j modulus 1/sqrt 2), which leaves an arithmetic table: the named-theorem and dictionary tests	scout (C-1 refuted: six scalar cells); judge by reading only	thin; "note if a closed form falls out"	exhibit row of M-R6

#	candidate	GRAVITY: the sentence, with riders	BIG	TRACT	GROUND	INSTRUMENT and tests	PRE-CHECK (executed)	KILL	fate
7	LEDGER-26 = NULL-CHANNEL	"Of the tests proposed for after the first experiment ... none splits the two readings at a reachable size"; "a run whose path coherence stays below r* = 0.8558 certifies nothing about the mediator on the two path qubits ..."	DUTY	HIGH (days)	HIGH: two groups in one week (2611.12229, 2611.05044)	committed ledger; rows are the product	scouts: r* and F_sep by two lanes independently (0.855798920, 0.444287); probe C (repulsion reproduced classically)	KA-3, KA-4 as in doc 29	owner's G30-2 block
8	E2-REQ = PLANCK-MASS WALL, AUTONOMY ROW	"No experiment on the masses alone separates a quantized mediator from a constraint-solved direct gate by more than about two units of m_A m_B / m_Planck^2 per cycle" (step-onset class); "the autonomy signature at the committed geometry is X"	DUTY (FIELD-minus only as a uniform theorem)	days	the wall is implicit in print (1807.07015, 2112.10798); the mediator-specific signal is printed with its size (2610.35253)	committed formulas; exact piecewise arithmetic	adversary P7 (ceiling 2; 25/63 at the committed point); corpus probe C (transverse 1/c^2)	not already in print: 35 percent (adversary)	mediator column M-R7
9	K4-EXCHANGE, LAMBDA-BRIDGE	"The state the gravitational gate prepares on two which-path masses is CNC-hosted at every coupling"; "two level-4 cells read at non-stabilizer outcomes lie outside C_2"	INCREMENTAL data	hours to two days	none found	LAMBDA engine; a qubit hull LP (scout)	scout addendum B (hosted at the committed angle, exact); A4 (Norrell and Strange outcomes, exact)	registration names the answer (KK-2)	doc 32 data rows
10	closed universes of TQFT gravity	"At level k a closed universe of genus 2 with large diffeomorphisms gauged has N states"	INCREMENTAL (a mathematician's table with a gravity gloss)	one to two weeks of build	framing HIGH (TQFT gravity, six titles); tables LOW	must be built (genus-2 representations)	three lanes: genus one is a 1987 closed form; Korinman's theorem decides the first rows; the extras are not states under the published definition	answered by "go to higher genus"	declined
11	TRUST-LADDER	"a certificate that trusts one mass, or neither, needs visibility above v_1, or v_0"	INCREMENTAL	a week	MEDIUM to HIGH	to build	not run; two settings DAF by the Horodecki criterion	asymptotic part not finite	row
12	FINISH-E	the walls-not-metrics sentence of doc 11	FIELD-minus, DECIDED; debt	2 to 3 agent-days after D	re-sweep owed	committed; same path hazard	read	PE-3 may fail (wording lock)	after D
13	OBSERVER CLOSE-OUT	doc 13's sentence with the stencil rider	owed	hours plus Paper G	Chataignier-Smith 2610.28732	closed	SCOPE-CERT done	none	owed block

#	candidate	GRAVITY: the sentence, with riders	BIG	TRACT	GROUND	INSTRUMENT and tests	PRE-CHECK (executed)	KILL	fate
					mandatory row				
14	2D-HOLO-M2	a robustness rider for Papers C and F	rider	days	unoccupied	to build	corpus scout: M1 half DAF by the committed M1a-2D gate; M2 half is the connectivity of the registration	decided by its registration	rider
15	EPRL-SMALL	"the smallest EPRL amplitude is not a stabilizer state in any local frame"	INCREMENTAL	3 to 5 days of build	none exact	to build	scout P4: BF row decided (marginal spectrum 1/7, 3/14, 3/14, 3/7)	no registered law	declined
16	CSG-POSTS	"the fate of the cosmic cycles is a one-dimensional series" (classical growth)	note	done in kind	untouched since 2001	scout probe	scout P2 (Markov chain; 4,824 causal sets)	a literature check	note
17	EXTREMAL-48	"pure chiral gravity at c = 48 has (or has no) consistent quantum theory"	DECISIVE-shaped	none	open nineteen years	none: test (a)	none possible	n/a	watch

What the matrix says in one sentence. The rows with a sentence about gravity in our world (1, 7, 8) are notes and duties; the rows with an open exact cell (2, 4, 6, 10) are sentences about a model or a toy; no row has both an open first question and a real-world gravity sentence, and no row is above FIELD-lite.

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3. Ranked shortlist

1. **RELATIVE** (row 1): recommended, section 5.
2. **QSG-NC** (row 2): the one place in the pass where the house's method met a question its own field calls open; largely answered by its pre-check; runs as the co-runner PRE-Q and is runner-up 1.
3. **CONTROL-2+1** (row 3): seed S1 at the strength that survives; the mandatory bridge lane.
4. **TOPO-MAGIC** (row 4): the only candidate whose first cell the judge's pre-check left open; ranked below the three above because its sentence is about a formal vector of a toy.
5. **FINISH-D** (row 5): the largest finished gravity object within reach; a debt, and the owner's call.

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4. Kills and declines: ruled honestly, each with its deciding theorem, definition or certificate

1. **Seed S1, first question ("does quantum gravity entangle two masses with no local mediator, and how does Theorem W's mediation disjunction type it"): DECIDED AT FREEZE, four ways, by four lanes.**
   - *In print.* Carney, arXiv:2108.06320, section 2, last paragraph (read in full text by the adversary and by the instrument scout): in d = 2+1 "particles can pick up braiding phases while scattering, and thus can become entangled"; the Newton potential "is not the non-relativistic limit" of 2+1 Einstein gravity; "entanglement generation alone does not require a mediator". Framing precedent: Ashtekar, arXiv:2211.01525.
   - *Separated labs: an exact null.* Isotopy invariance of a topological theory, the absence of a Newtonian limit (Deser, Jackiw, 't Hooft 1984, cited through Carlip). Computed three times: adversary P1 (Z_2 lattice gauge theory, integer state vectors: second-difference sign (-1)^N over 200 schedules, +1 in all 125 disjoint trials); instrument scout (monodromy of a mass around a neutral pair exactly 1 at k = 2 to 6); corpus probe B (the Z_2 double on an 8 x 8 torus: 0 ebits with 0 to 11 of the loop's 12 edges applied, 1 ebit at closure).
   - *Linked labs: a direct gate, clause by clause of Definition M.* M1 fails (the field is slaved by the flatness constraint; N_ab^c <= 1); M2's forbidden clause bars promoting the fusion register; M4 and S2 fail as an exact operator identity (the loop monodromy commutes with every braid inside the loop: instrument scout, 4 strands, k = 2 to 6; corpus probe B: dephasing a complete cut-set blocks the gate only in the basis that measures a which-path, while a mediated control chain dies in both bases). Reading (II) of Theorem W, by the definitions.
   - *The antecedent test.* Theorem W needs a certified positive at separation; a theory without local degrees of freedom gives an exact null at separation, so the theorem never fires there and the theory cannot type its disjunction at all (adversary). Retardation

holds trivially for a mediator-free topological gate (the adversary's hand lemma on linking and light cones; the literature scout's Q1d), so retardation alone separates nothing on this instrument.
    - *What survives:* an exhibit and four drafted riders (adversary R-1, R-2; corpus R-DQ6-1, R-DQ6-2), among them a scope rider for the wording of Paper B's slaving dichotomy (two exact topological instances are neither of its branches as worded; Theorem W itself is untouched, since both are null at separation). Row 3; lane M-R6.
2. **Seed S1, second question ("is the gravitational gate Clifford or not as a function of the level, against Theorem M's exception set and the Freedman-Larsen-Wang theorem"): DECIDED AT FREEZE in every encoding one can register, and occupied.** Fixed-charge which-path gate: Theorem M with the conformal weights, Delta_c = 2 pi (h_c - h_a - h_b), Clifford iff 2(k+2) divides c(c+2) - a(a+2) - b(b+2) (instrument scout, k <= 12; corpus census of 71,070 sector rows to k = 40, of which 4,539 Clifford). Charge-traced gate: the monodromy scalar M_ab = S_ab S_00/(S_0a S_0b) is real, so the channel is the mixture ((1+M)/2) identity + ((1-M)/2) CZ at every level (Lemma H; three lanes: instrument k <= 12, corpus 12,340 label pairs to k = 40 by a telescoping identity, adversary k <= 12). Fusion register: Jones 1986 and Freedman, Larsen, Wang 2002, Theorem 0.1 (read in full text by the literature scout); the two-dimensional instance reproduced by three lanes (projective orders 24, 12, 60 at k = 2, 4, 8; infinite at the other levels to 12). In print as "magic against level": Munizzi and Schnitzer 2604.14271; Fliss 2011.01962. Which register is "the gate" is a registration (the encoding test; J-G: the two scouts' drafted Paper M rows contradict each other as sentences). Theorem M's exception set lives on a continuous hold time; here the phase is an integer linking number times an angle: no comparison is forced on anyone (adversary).
3. **Seed S1, third question ("do the closed-universe, clock-boundary and self-reading results survive in a genuinely diffeomorphism-invariant exact theory"): TWO AXIOMS AND AN ABSENT OBJECT.** The sphere has a one-dimensional space in every state sum of this kind because flatness is imposed as a constraint: doc 12's thesis is the definition of the theory there (the axiom test). The observer repair is Frobenius reciprocity, Hom(1, a x X) = Hom(a*, X), and the clock-boundary isomorphism is the gluing axiom. Self-reading has no object (the Hamiltonian vanishes: test (a)); with a registered clock the registration names the answer (test (d)). The timing floors vanish identically (every spectrum is a root of unity). The anyonic Page-Wootters construction is in print (Nikolova et al. 1705.04130). One thing the instrument scout computed is worth keeping as rider material for Paper F and nothing more: with n identical masses and the braid group gauged, the closed universe is two-dimensional at (k, spin, n) = (8, 2, 4) and the observer's algebra is non-commutative at (4, 1, 3), exactly at the simple-current fixed points, by a mechanism the mathematical literature owns (Kirillov and Ostrik; Romaidis and Runkel).
4. **Seed S2, first half ("what a second-generation experiment must measure to separate a non-classical mediator from a direct nonseparable gate"): DECIDED AT FREEZE.** Lemma G (experiment scout, two lines): for a coupling diagonal in the branch labels the mass-side state sees the mediator only through the Gram matrix of its branch states; every deviation from a carrier-free gate is a modulus deficit or a Bargmann phase, and positivity bounds the second by the first. Committed: doc 30a SAT-1 to SAT-6. In print: Mitrakos, Papageorgiou, Perche, Christodoulou 2601.03214 (retardation; cited by Paper B itself); Matsui 2610.35253 (the exact factorization: Newtonian phase, characteristic functional of the graviton state, commutator phase; |B| <= 4 sqrt(Gamma_X Gamma_Y); about sixty orders below reach; hybrid dynamics reproduces it). Conservative retardation is not a certificate (only the time-symmetric part of the response enters the branch phases). Regressed by own arithmetic: adversary P7 (ceiling 2 in units of m_A m_B / m_Planck^2 on the step-onset class; 25/63 at the committed geometry); corpus probe C (the committed 1/c^4 datum is scoped to the collinear layout: a 1/c^2 term of relative size 2.6 x 10^-24 in a transverse layout; SATURATED stands).
5. **THE PLANCK-MASS WALL as a theorem or a front (adversary 6.1): DECLINED; its ceiling kept as a rider.** The ceiling bounds the discriminator between an instantaneous gate and anything retarded; by item 4 that is not the discriminator between a mediator and its absence (the conservative term is shared by a time-symmetric direct-action theory: corpus scout's caution; experiment scout's D2), and the mediator-specific term is printed with its size. "The mediator question opens only at the Planck mass" would over-read the ceiling. Licensed form: the ceiling as the wording of SAT-1 (rider R-3). The autonomy signature S3 is the one cell of the saturation map with no number in the record: a duty cell (M-R7).
6. **BORROMEAN as a front (3d-instrument 1): DECLINED; kept as an exhibit row.** (i) The dictionary test: the mechanism exists identically in any Chern-Simons-matter system, and the which-path labels are not posable inside a fully gauged topological theory (the scout's own section 5). (ii) In a two-dimensional sector the determinant forces a scalar K = V^-1 W^-1 V W to be +1 or -1, and K = -1 holds iff both monodromies are traceless and the 6j entry between their eigenbases has modulus 1/sqrt 2 (the scout's observation; a two-line lemma): what is left is the arithmetic of a 6j table. (iii) The named-theorem test: sector traces of pure-braid commutators are evaluations of coloured link invariants of Borromean type, natively exact objects of that community (closed formulas for the Borromean rings are cited here from memory, NOT READ, and carry no verdict by themselves). (iv) Its strongest row, the dephased-mediator control, is a regression of Theorem W inside the model. Kept: the P-BORR clause table as the exhibit of reading (I) inside a gravity without gravitons.
7. **Closed universes of TQFT gravity (GHOST-GENUS = COMPOSITE-LEVEL; CLOSED-TV; RATIONAL-MW; the struck ONE-STATE-3D): DECLINED.** Genus one is the Cappelli-Itzykson-Zuber count, floor(tau(k+2)/2), reproduced exactly by three lanes (to k = 16, 30 and 60). Prime levels: Roberts. The first genus-two rows: Korinman 1406.4389, Theorem 1.1 (read in full by the adversary). Under the published definition the genus-one extras are not states at all, and gauging the mapping class group is a choice (perimeter scout; adversary). The handlebody sum is not the ensemble at finite genus (adversary P5: weights 1 : 4 : 1 : 4 at genus 2 and 1 : 112/31 : 1 : 112/31 at genus 3 for S_3; other-instruments P3: 8 Z_A + 2 Z_D for SU(2) at level 4, 4 : 1 against the automorphism weights 3 : 1), which is the field's own printed reason to sum all topologies (Dymarsky and Shapere; Barbar 2511.04311). Native exactness and test (h). A mathematician's table with a gravity gloss.
8. **TOPO-MAGIC as a front: NOT KILLED, RE-GRADED.** Three of its rungs are decided (the summed state is not a stabilizer state: elementary; the antisymmetric neighbour is outside C_2 by Clifford equivalence to |S>|S>: scout A1; every genus g >= 2 state is outside by Lemma C: scout A5, gate-pending at four qutrits). Its genus-one cell is open and the judge's pre-check kept it open (J-F1). It is ranked a data lane because of what its sentence is about: the summed state is a formal vector of the bulk Hilbert space of a Z_3 toy; under alpha-superselection the boundary ensemble is a mixture of stabilizer states with no resource by definition (the scout's own

KT-1, which the scout did not rule). Ruled for this pass's admissibility: a sentence about a model of the gravitational path integral, admissible; never a sentence about gravity in our world; no cost, advantage or classicality sentence from a hull placement, as doc 32 rules.

9. **K4-EXCHANGE and LAMBDA-BRIDGE: data rows, not questions.** The two-mass state CZ(Delta)|++> is hosted by the qubit CNC hull at every coupling including the committed angle (instrument scout, exact certificates); on the level-4 qutrit cell the three pair-charge outcomes are a stabilizer, a Norrell and a Strange state (literature scout A4, exact), so by doc 32's rows two cells read at non-stabilizer outcomes are outside C_2. Corollaries and data for doc 32's bridge lane, inheriting G31-2 and G31-3.
10. **The other six instrument families: natively exact or asymptotic in disguise** (other-instruments scout, section 3, adopted): spin foams at small spins (flatness and cosine are large-spin statements; the BF 4-simplex row decided by probe: neither stabilizer nor perfect tensor), CDT (2D solved; 3D and 4D scaling), JT and SYK (the exact BPS corner is the busiest exact front of the year), tensor models and GFT, AdS3 partition functions (Maloney-Witten sums and their cures are the field's), supersymmetric black-hole counting (Sen's positivity conjecture is a theorem: Rossello 2403.19630). EPRL-SMALL: an engine without a question. CSG-POSTS: a note (the number of maximal elements is a Markov chain). EXTREMAL-48: no instrument.
11. **2D-HOLO-M2, TRUST-LADDER, FINISH-E, OBSERVER CLOSE-OUT:** a rider (the M1 half is decided by the committed M1a-2D gate, `analysis/geomcost_results.md` line 49: corpus scout), a row (two settings decided by the Horodecki criterion; the minimum over all Bell tests is not a finite problem), a debt after D, an owed block (section 8).
12. **RELATIVE's own theorem and QSG-NC's own first question are decided at this freeze too, and are reported as that** (sections 5.2 and 7): the first by the judge's three-line lemma, the second by the scout's pre-check and two short lemmas. Neither is recommended as a front; both are finish-and-verify notes.
13. **Every kill of doc 22 section 6.2, doc 26 section 3, doc 29 section 3 and doc 31 section 4 stands.** Nothing in this pass re-opens the observer line, the witness-line decided shapes, the I-p3 class-extension line or the arithmetic lane.

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5. THE RECOMMENDATION: RELATIVE, what shared noise cannot erase (a bounded program at NOTE grade)

Altitude, first line: NOTE grade; INCREMENTAL as discovery; a design-and-reading law of the experiment on the founding line. It says nothing about quantization beyond Theorem W's disjunction. The pass found no front at Theorem-W altitude (section 9); this is the candidate whose sentence is about gravity in our world, whose one new statement is exact, and whose value decays with time. It is recommended as exactly that.

> **Dream form**
>
> Gravity acts on two masses only through their relative position, and by the equivalence principle every uniform disturbance falls on both alike. **Which part of gravity's entangling action can no shared noise erase, which law of gravity does that part read at thirty micrometres, where gravity at its own strength has never been measured, and does it certify what the first experiment was built to certify?**

> **Operational form**
>
> Family F_n: two n-path registers (n = 2, 3, 4; linear or parallel geometry; equal spacing s; centre distance D), a product input with nonzero amplitudes, the committed diagonal gate exp(i g(l - k)) with g(m) = (G m_A m_B tau / hbar) U(D + m s) in the linear geometry and U(sqrt(D^2 + m^2 s^2)) in the parallel one, U taken from a registered static family {1/r; one Yukawa term (alpha, lambda); the Stelle form (1/r)(1 - (4/3) e^(-r/l2) + (1/3) e^(-r/l0))}; noise = complete or Gaussian-partial dephasing in the common-mode generator k mu_A + l mu_B (mu = mass times spacing; the mismatch mu_A/mu_B registered) together with independent local dephasing. Two registered design points: the committed geometry of record, and the 2026 white-paper benchmark, labelled "not a design of record". Type three columns with exact or interval-certified cells: **(C) the certificate column.** Theorem R (the common-mode lemma): after the complete twirl the state is separable iff it is PPT iff the phase table is quadratic up to sector constants iff every generator of the invariant lattice L_inv vanishes mod 2 pi; its closed forms; the thresholds in local coherence, mismatch and partial noise; a certified witness on the protected sector with its shot count on the E1-M pattern; what a positive and a null on that sector certify (Theorems W and W', verbatim). **(L) the law column.** Which functional of the potential each design reads (two paths: the second difference; three paths, linear: the third-difference invariant J = [g(-2) - g(2)] - 2 [g(-1) - g(1)]; four paths, parallel: one fourth-difference invariant), the ratios rho_2 and rho_3 to their Newtonian values over the window of ranges that the cited torsion-balance bound leaves open, their zero sets, and the null rule: which combination of a witness null, an extracted angle and a protected invariant excludes which law. **(M) the mediator column** (assembled, never headline): what stays invisible to matter, with its sizes (SAT-1 to SAT-6 as committed; the ceiling in Planck units; the commutator phase as printed; the autonomy signature S3, the one cell without a number), and the control universe (lane M-R6). **Typed outcomes of equal standing:** NOTE-BY-LEMMA (Theorem R holds to the registered n by both legs and every cell is typed COMPUTED, COROLLARY, CITED or SATURATED; the note assembles; the leading branch, never a failure); EXOTIC-ROW (a phase table that is PPT and not quadratic at some n: reported first); LADDER-INDEPENDENT or LADDER-DEGENERATE (whether the rungs read different functionals of the law on the registered family); PROTECTION-PAYS or PROTECTION-DOES-NOT-PAY (at the benchmark, under the white paper's stated noise budget, with the split into common and differential noise registered before any readout); SCOOPED-CELL (a printed path-encoded statement: cite; the cell becomes a row).

Ceiling riders, fused from day one. NOTE grade: no sentence of this program claims a discovery; Theorem R is a corollary of a three-line lemma and an integer identity (computed to n = 8 by the judge; general n is a derivation target) and is labelled so before the run. "Protected" always travels with: against complete common-mode dephasing; in the path-diagonal model (equally spaced branches with one spacing history in both interferometers, closed at readout; noise entering as a force uniform over both masses, hence a phase linear in the branch

index; gradient noise and imperfect closure are outside the model); matched mass times spacing; nothing against local dephasing (the protected state needs more local coherence than the unprotected benchmark, not less). The principle (the interaction depends on the relative position alone, so noise on the common mode can be rejected) is printed for the Gaussian setting (Datta and Miao, arXiv:2104.04414): cited first, never claimed; the house's statement is the path-encoded one. A positive certifies "non-classical" in Definition 2's sense and Theorem W's disjunction, never "quantum" and never "gravity is quantum"; a null never feeds "gravity is classical"; a protected-sector reading is a statement about a channel and its detection, never about the mediator. The law column is static and tree-level; torsion-balance bounds are cited, never re-derived (doc 29 section 4.2 (v)); the benchmark is the white paper's representative point; "the experiment tests quadratic gravity" is never used bare; Matsui's trilemma (2610.25994) is cited, never re-derived. "Loophole-free" never bare; "undecidable" never; licensing is never posting; release is the owner's call.

5.1 Why this one, now

1. **Gravity relevance first.** Rows 1, 7 and 8 of the matrix are the only ones whose sentences concern gravity in our world; of them row 1 alone carries a statement that is new in its setting and exact.
2. **It is seed S2 in the form that survives its own pre-check**, and the founding document's second deliverable (a discriminating protocol) at the geometry the community now publishes: the white paper of 2026-10-05 (masses 10^-15 to 10^-14 kg, closest branches 30 to 50 um, acceleration noise as the binding requirement, seven to eight orders below what tabletop isolation gives near 1 Hz, by the scout's reading).
3. **Its value decays with time.** Its neighbours publish monthly (2609.10697, 2610.38840, 2611.05044, 2611.12229; the Gaussian line 2406.04361, 2508.01397, 2508.14337), and the statement is simple once seen.
4. **It costs days, and it cannot produce a false claim if its bans hold**: its decided conjuncts are its product (the doc 29 logic), its live cells are small exact or interval computations.
5. **It composes.** With E1, E1-M and the living table it completes D1's protocol leg at the 2026 design, and its law column turns row R21 of doc 30a from "no discriminator" (shifts of 5 to 7 percent at the committed geometry) into an order-one reading at the benchmark (experiment scout probe A2, regressed by J-C0).
6. **The counterweight, said here and again in section 9:** the judge reduced its theorem to a lemma within the hour. Whatever is this short, the experiment's own theorists can do in an afternoon. The house's delta is the exact statement with its invariants, the certified cells, the null rule and two adversarial legs.

5.2 The pre-check of the pre-check: per definition, per route, per conjunct, including the scouts' own wording (executed here)

(i) Per definition. *The family:* the committed two-path gate family extended in the number of paths; canonical once n, geometry and spacing are registered. *The twirl:* the projection onto sectors of fixed k + l; "complete" is a limit, and the Gaussian-partial model is registered for the cells. "*Protected":* defined by Theorem R's invariants. "*Reads the law":* a ratio of closed forms. None of the four names an answer; one (the path-diagonal model) is a rider. **(ii) Per route.** *The theorem:* DECIDED. Hand lemma H-B1 (a Hermitian matrix with unit diagonal and unimodular entries is positive semidefinite iff it has rank one; the blocks of the partial transpose are such matrices up to a diagonal congruence, also for unequal amplitudes) plus the integer identity L_ppt = L_inv, which the judge computed for n = 2 to 8: ranks 2n - 5 in the linear geometry and n - 3 in the parallel one, index 1 at every n (J-B1, J-B2). So through n = 8 there is no phase table that is PPT without being quadratic, hence no bound entanglement in the family, and Theorem R is a corollary, never a finding. *The closed form:* H-B2, N_3(J) = (2 cos((pi - |J|)/3) - 1)/9 for J reduced to [-pi, pi]; it gives 0.009524074221 at J = 211/1400, the scout's number, and agrees with the float eigenvalues on all 248,832 tables with phases in (2 pi/12) Z to 4.0 x 10^-16; those tables are PPT exactly on the 20,736 with J = 0 mod 12 (J-B3, J-B4). The scout's two numerical laws (slope 1/(9 sqrt 3); maximum 1/9 at J = pi) are its corollaries. *Unequal amplitudes:* 9,300 tables at n = 3 and 4, no disagreement with the lattice criterion (J-B5). *The law column:* closed forms (J-C). *The certification:* a classical channel acting on a product input outputs a separable state, which is PPT in every sector, so Theorem W applies verbatim to a certified positive on the protected sector: a corollary. **What no route decides:** the cells (thresholds under partial noise, mismatch and local dephasing; shot counts; whether the protection pays under the white paper's budget), the proof for general n, the (alpha, lambda) plane. **(iii) Per conjunct of the order of record.** "Gravity-only": the sentence is about the gravitational potential between 30 and 70 um and about what an experiment on it certifies, with its riders. "New instruments are allowed and wanted, with their build cost stated": the 2+1 instrument was built three times at scout grade (seconds of compute; about a week to record grade) and typed a control universe by the lanes that built it; it is used in lane M-R6 and is not the front. S2's two halves are transcribed in section 0 item 2: the first is decided, the second is this recommendation and the G30-2 duty. The founding document's "updated against published sensor data": cite-only, as doc 29 section 4.2 (v) ruled. **(iv) The scouts' own wording, pre-checked.** (a) "*No prior statement of this was found*" (experiment scout, on RELATIVE): corrected. Datta and Miao, arXiv:2104.04414, abstract: the signature "is the quantum mechanical squeezing of the differential motion of two identical masses with respect to their common mode. This is because the gravitational interaction depends solely on the relative position of the two masses"; and in its text "a significant part of the seismic noise acts on the common mode of the masses without affecting the differential mode". That is the principle, for Gaussian oscillators. arXiv:2307.07536 (on electromagnetic screening between the two interferometers) names "common mode fluctuations between the two halves of the interferometers" without treating them; in 2609.10697 the "common mode" is the mean of two local rates (the scout's reading, confirmed). None of the thirteen full texts states the two-path against three-path fact (J-D). (b) "*J ... about -2 s^3 V''' tau / hbar":* the exact invariant is 1.2401 times the third-derivative term at s/D = 1/5 (J-C); "about" must carry that figure. (c) "*within the current inverse-square-law bounds ... between +1 and about -0.2 times its Newtonian value":* the five ratios regress (J-C0); the bound for a term of strength 4/3 was read off the published curve by no leg (38.6 um is the strength-1 figure): the window's upper edge is typed NOT CHECKED and is the pilot's first cited datum. (d) "*The NV centre is a spin-1 system, so three paths are native to the platform":* a platform statement checked by no leg; NOT CHECKED. (e) The encoding row and the cosmological-constant row of section 1. (f) The literature scout's "first printed-nowhere bridge from the LAMBDA program to an exact quantum gravity model": restated as corollaries that inherit G31-2 and

G31-3 (section 4 item 9). (g) The corpus scout's hazard (an absolute output path in a committed engine): confirmed at `analysis/arealaw_lattice.py` line 1908. **(v) What CAN stop it.** A printed path-encoded statement (KR-1; the judge prices it at about 20 percent after the nets); the lemma failing beyond n = 8 (KR-2; about 10 percent); the window closing by a new short-range bound (KR-3). That the protection does not pay at the benchmark is a typed result, not a stop.

5.3 The judge's own findings, stated so they cannot be oversold

1. **The common-mode lemma is three lines and an integer identity (J-B).** Through eight paths the family has no bound entanglement; the invariant lattice has one generator at three paths (J), three at four, and in the parallel geometry none at three paths and one at four: the scout's two rows that "could have failed" are the ranks 0 and 1 of that lattice. Judge grade, one leg: exact for the lattice statements, float for the table scans; general n is not proved.
2. **The two rungs read different functionals of the law (J-C).** At the benchmark, with the scalar decoupled, the two-path phase vanishes at a spin-2 range l2 = 22.4514 um and the three-path invariant at 18.1640 um; at the zero of either the other stands at -0.128 or +0.145 of its Newtonian value; over the whole window from 5 to 38.6 um the larger of the two moduli never falls below 0.069 (at 20.18 um). On this one-parameter family no range nulls both readings, so a joint null would not be a statement about that law. With the scalar at the same range both ratios stay positive and small (0.082 and 0.035 at 38.6 um). Riders: two different geometries are compared (two paths at 40 and 10 um, three paths at 50 and 10 um); static, tree-level, one family; a property of two closed forms, never a finding about gravity.
3. **The principle is in print; the path-encoded theorem was not found (J-D).** One reading follows and is typed HAND, UNVERIFIED: in the Gaussian regime the coupling is the quadratic part of the potential, which is exactly what complete common-mode noise removes from the certificate between the two masses (the lemma, in the path-diagonal model; for oscillators a Duan-type argument made by hand: once the common mode is scrambled, both symplectic eigenvalues of the partial transpose are large). What survives there, the squeezing of the differential mode, would then be a diagnostic of the coupling and not a certificate that excludes classical channels. If a verifier confirms it, the protected certificate belongs to the non-quadratic part of the potential in both settings. It is a pilot row (P-R6), never a sentence of this document.
4. **QSG-NC: a structure lemma by hand (H-E), conditional on the three relations exactly as the scout quotes them.** Q2 Q1 = (1 + N) Q1 Q2 with N central and N^2 = 0. Hence every representation in which the centre acts semisimply is commutative: this contains the scout's unverified simple-spectrum theorem T-S, and it confines any non-commutative realisation to the first-order (Heisenberg) kind, which the scout's exact rank probes closed at generic characters under two of its three readings. The last step is machine-checked on a Weyl pair (defect nonzero, as predicted) and on the Heisenberg family (defect zero, N as predicted): J-E1. The premises were not checked by this leg beyond reading the paper's definition of a Bell pair.
5. **TOPO-MAGIC's cell is open (J-F1, addendum A-1).** Over all 176,359,680 values of the 42 pinned functionals transported by the affine symplectic group, the minimum on the genus-one state is exactly +9/128; the same pass returns exactly 0 on the hosted cubic state and reproduces the pinned value on |S>|S>. A positive margin on 42 functionals says nothing about membership; the LP is a pilot's.
6. **Two drafted rows contradict each other by encoding (J-G)**, and one scout's "yes" is refuted as worded (section 1).

Honest odds (judge). PILOT-R returns with its control reproduced: about 92 percent. Theorem R verified by two legs to n = 12: about 90 percent; proved for general n within the cycle: about 65 percent. LADDER-INDEPENDENT on the (alpha, lambda) plane inside the cited bound: about 75 percent. PROTECTION-PAYS at the benchmark for some registered split of the white paper's budget: about 60 percent. A printed path-encoded statement surfaces in the pilot's full-text pass: about 20 percent. The note assembled and through its two adversarial legs within one cycle: about 80 percent. Judged big alone: about 4 percent. A sentence at Theorem-W altitude: about 3 percent.

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6. The program under it: RELATIVE (report = doc 34)

Binding order (the house rule since doc 26 section 5, with the doc 28, 29 and 32 extensions): pilot, then the pilot verifier gate, then scout lanes, then the assembly freeze, then bounded reproductions, then two adversarial legs; a closing audit only if a quotation event is wanted. No assembly text is frozen before PILOT-R and its verifier gate return; every conjunct of section 5 and every wording item of section 5.2 (iv) is transcribed into the pilot's frozen rule; no definition introduced after a readout may carry a verdict.

Mandates

- **M-R1: PILOT-R (the pre-check; runs FIRST; the first computation).** In order: **(a)** literature before any cell: the full text of 2104.04414 and its citers; 2307.07536 (its "common mode fluctuations" passage in context); the multi-path designs 2101.08086, 2312.05170, 2412.20462, 2610.38840; the matter-wave gradiometer and decoherence-free-subspace literature under "collective dephasing", "common-mode rejection", "differential interferometry"; for the law column 2609.22501 and 2610.25994, and the published torsion-balance curve (Lee et al., PRL 124, 101101) read at strengths 4/3 and 1/3. A printed path-encoded statement stops that cell (KR-1). **(b)** The battery: the committed anchors regress before any live cell is read (Delta = -211/672; 0.864790 and 0.975555; N_min = 1105; r* = 0.855798920; F_sep = 0.444287) and so do the judge's rows (L_ppt = L_inv for n <= 8; N_3 at J = 211/1400; the zeros 22.4514 and 18.1640 um). **(c)** Theorem R by an own route for n = 2 to 12 in both geometries, with mixed registers (n_A, n_B) as a registered extension, torsion points searched for exotic tables, and a proof attempt for general n written before the run. **(d)** Column C's cells with interval arithmetic (Taylor enclosures as in doc 30's cell M-1). **(e)** Column L on the registered family. Foreground; scratch-only writes; a manifest.

- **M-R2: the pilot verifier gate (one adversarial rigor-type leg; its ruling is the gate).** Own derivation of the block structure of the partial transpose; own lattice code; own closed forms; the classical-channel teeth by own constructions; KR-0 and KR-2 ruled; tokens from the rigor band.
- **M-R3: scout lanes (after the gate).** L1 to L4 below.
- **M-R4: assembly (only after the gate).** The note E1-R in the 05a / 21a pattern: the lemma with its proof, the invariant table, the closed forms, the certified cells at both design points, the law table with the null rule, the must-cite block (2104.04414 first), the ceiling riders verbatim. Never posted by this program.
- **M-R5: the two adversarial legs on the note.** A certificate-rigor leg (every number by own routes) and an experimentalist steelman (the 21a precedent: a Stern-Gerlach experimentalist tries to break the path-diagonal model, the matched-spacing rider, the noise split and the witness's settings); tokens from the physics band.
- **M-R6: the corpus-bridge lane CONTROL-2+1 (mandatory; never headline; runs whatever the owner decides about the rest).** Seed S1 at the strength that survives: the exact sentences of row 3 re-derived at record grade on one exact SU(2)_k engine and the Z_2 double, with a verifier on a different engine, each row labelled a corollary and each with its encoding stated (section 1 item 2); the P-BORR clause table as the reading-(I) exhibit; the closed-universe exception cells as rider material for Paper F. Output: drafted riders for Paper B (R-1, R-2, R-DQ6-1, R-DQ6-2), Paper M (the level rows with their encodings; Lemma H), Paper A (the tomography-failure rider) and Paper F; drafted, not entered. Wording: never "gravity needs no mediator", never a 3+1 sentence, the null there never feeds a classicality claim (that is the point of the exhibit).
- **M-R7: the mediator column (assembly of committed and cited sizes plus one cell).** SAT-1's ceiling in Planck units (R-3), the commutator-phase entry as printed (R-B1, R-B2), the transverse 1/c^2 term and the scope of the 1/c^4 datum (R-DQ6-3), and the autonomy signature S3's size at the committed geometry from the printed influence functionals (the one duty cell; days; evaluated by own arithmetic, the source formulas read first). Drafted for doc 30a's block.
- **M-R8: co-runners (cheap, self-terminating, never headline). (i) PRE-Q**, the finish-and-verify of QSG-NC under a one-week cap (order in section 7 item 1). **(ii)** The five TOPO-MAGIC rows and the level-4 corollaries, as data for doc 32's bridge lane, on an isolated engine copy, only when the owner opens doc 32's block (they inherit G31-2 and G31-3). **(iii)** The E-i pre-check of Paper D on a path-patched copy, only if the owner takes runner-up 4.
- **M-R9: standing sweeps and triggers.** The four Adjudicator triggers at every leg; the citers of 2104.04414, 2610.07422, 2609.22501, 2610.25994, 2611.12229, 2611.05044; INSPIRE primary (`refersto:recid:`; `abstracts.value:`; `fulltext:`), arXiv with 11 s spacing after a 429.

Entry calculation = PILOT-R (pre-registered, finite, exact or interval-certified; registered predictions with declared parity)

- **P-R-ctrl (MANDATORY).** The battery of M-R1 (b). The teeth: three registered measure-and-prepare channels and one two-way LOCC protocol on the three-path family give outputs that are PPT in every sector; the two-path twirled state is separable for every phase table (the scout's E1). Failure of any clause = KR-ctrl.
- **P-R1 (the lemma beyond the judge's range).** L_ppt = L_inv with index 1 for n = 9 to 12, and for the mixed registers (2,3), (3,4), (3,5) the PPT locus equals the quadratic locus. **Forecast TRUE about 85 percent**; FALSE = EXOTIC-ROW, reported first.
- **P-R2 (general n).** A proof of L_ppt = L_inv for every n, checked by the verifier. **About 65 percent**; FALSE = the theorem is typed "computed to n = 12".
- **P-R3 (the price in local coherence).** At the benchmark (J = 211/1400) the protected three-path state is entangled iff the independent local coherence exceeds a threshold in (0.93, 0.97) (the scout's float value 0.9597), certified by intervals; a closed form for the threshold exists. **About 80 percent** for the interval, **about 55 percent** for the closed form.
- **P-R4 (does the protection pay; parity declared).** Under Gaussian common-mode phase noise of rms sigma, mismatch 10^-3 and local coherence 0.98, there is a sigma* below 3 rad above which the three-path design reaches a 5 sigma witness in fewer shots than the two-path design at equal closest approach (30 um). **About 60 percent.** FALSE = PROTECTION-DOES-NOT-PAY at the benchmark: a typed result of equal standing, published as the finding.
- **P-R5 (the ladder on the plane).** For one Yukawa term the zero curves of rho_2 and rho_3 in the (alpha, lambda) plane do not meet inside the region the cited curve leaves open, for the benchmark pair of geometries and for the same-apparatus pair (the three-path register read on its two-path sub-registers). **About 75 percent.** FALSE = a blind point, with its coordinates.
- **P-R6 (the Gaussian reading, section 5.3 item 3).** For two oscillators with a bilinear coupling and complete common-mode noise the state is separable while the differential mode stays squeezed (exhibited exactly on one finite Gaussian example), and the squeezing statistic is reproduced by a registered classical channel. **About 70 percent** for the first clause, **about 50 percent** for the second. Every branch is a typed row of the table; never headline; the cited paper's own claims are typed against Definition 1 only after its full text is read.
- **P-R7 (near-corollaries, registered so they are never findings).** Theorem W applies verbatim to a certified positive on the protected sector; a classical channel's output is PPT in every sector; the committed thresholds re-evaluated at the benchmark angle -211/1000 regress the experiment scout's data (F_ent 0.904728; v_DI 0.994501). **About 99 percent.**

Declared parity. TRUE and FALSE are reportable on every row; NOTE-BY-LEMMA is the leading branch and never a failure; a refuted forecast is reported first.

Engines and build plan

In hand, scout or judge grade: `scout_dq6_experiment_probe/probe_E_paths.py`, `probe_E2_partial.py`, `probe_E3_invariant.py`, `probe_A_shortrange.py`; `dq6_judge_probe/probe_JB_relative.py` (the lattice routines) and `probe_JC_ladder.py`. Committed, as isolated sha-verified copies only: `analysis/witness_magic_lattice.py` (Clifford census, trig ring), `analysis/e1m_figures.py` (thresholds and shot-count

conventions), `analysis/anchor_corunner_fork1.py`. Any leg that touches `analysis/arealaw_lattice.py` or its importers first patches the copy's output path (the absolute-path hazard). To build, about a week: interval-certified negativity and witness for n <= 5; the partial-noise model (each coherence multiplied by exp(-sigma^2 (Dk mu_A + Dl mu_B)^2 / 2) and by the local factors); the shot-count engine; the (alpha, lambda) contour engine. For lane M-R6: one record-grade SU(2)_k engine (three scout engines exist; the verifier takes a different one from the builder) and the Z_2 double tableau. Environment: `python3.12 -I` with numpy, sympy, mpmath (present today).

Fresh prime-band plan (every base and first prime certified this pass by own trial division, cross-checked by sympy: J-A, `dq6_judge_probe/primes_ja.log`)

Everything consumed through doc 32 lies at or below 9,600,047; the record reserves >= 9,700,003 (doc 32, G31-2; re-certified prime), >= 9,300,001, >= 8,900,029, >= 8,550,001 and every earlier one stay their owners' and UNTOUCHED. RELATIVE bands, from the successor band doc 31 reserved fallow: **run >= 9,800,003** (9,800,001 = 3^3 x 23 x 43 x 367 composite; first prime 9,800,003; PILOT-R tokens 9,800,003 / 9,800,009; cells and assembly 9,800,027 / 9,800,053; PRE-Q 9,800,101 / 9,800,113); **rigor / pilot verifier >= 9,900,047** (9,900,001 = 17 x 449 x 1297 composite; first prime 9,900,047; 9,900,091 / 9,900,101 / 9,900,113 certified); **physics / experimentalist steelman >= 10,000,019** (10,000,001 = 11 x 909091 composite; first prime 10,000,019; 10,000,079 / 10,000,103 / 10,000,121 certified); **closing-audit reserve >= 10,100,009** (10,100,001 = 3 x 19 x 37 x 4789 composite; first prime 10,100,009; 10,100,011 / 10,100,047 certified), UNTOUCHED until an audit is wanted; **successor band >= 10,200,007** (10,200,001 = 7 x 1457143 composite; first prime 10,200,007; 10,200,011 / 10,200,037 certified), reserved fallow for the next program. Nothing is decided by a prime anywhere in this program: every token is a regression pin (mod-p ranks of the integer lattices; PRE-Q's ranks). One caution for lane M-R6, from the corpus scout: a mod-p pin of a cyclotomic computation at level k needs p = 1 mod 4(k+2), so the first primes of a band do not qualify in general; the leg takes the first qualifying prime of its band per level and certifies it itself (none is certified here).

Kill criteria of record (pre-frozen here; to be frozen verbatim in the pilot docstring)

- **KR-ctrl (pilot gate, method).** Any P-R-ctrl clause fails: the machinery is broken; stop before any cell; repair dated; re-run.
- **KR-0 (the lesson's own leading branch, transcribed).** Every conjunct of Theorem R is a corollary and every cell closes as a closed form or a cited number: "a note, not a front". The note assembles from the pilot; the two adversarial legs run on the note. Never a failure.
- **KR-1 (printed).** A posting states the path-encoded fact (two paths separable, more paths entangled, under collective dephasing of a diagonal gate): cite; the theorem becomes a row; the cells continue only where they are not printed too.
- **KR-2 (exotic).** A PPT table that is not quadratic at some n <= 12: reported first; Theorem R is scoped to the n where it holds; the exotic state is typed (bound entangled, or separable by another route) before any sentence travels.
- **KR-3 (the window).** A new short-range bound closes the strength-4/3 ranges above 10 um, or the benchmark is superseded: column L falls back to the committed row; the note keeps column C.
- **KR-4 (budget).** One week of build, the verifier gate, two legs; at most two bounded reproductions on the van Hove template (the reach printed by 2609.22501 at the benchmark; the shield-mediated channel of 2604.22593); a third goes to the owner.
- **KR-5 (wording bans).** Any drift toward "gravity is quantum", "gravity is classical", "immune to noise", "decoherence-free" bare for the pair, "the experiment tests quadratic gravity" bare, "loophole-free" bare, or a protected-sector sentence about the mediator: stop the sentence at the licensed wording.
- **KR-6 (trigger mid-run).** MOVW ref. [7], a data timeline or a new published design point: its row enters first; a new design point is added as a further labelled point and never replaces a registered one after a readout.
- **KR-7 (the co-runner).** PRE-Q returns SURVIVOR: stop the co-runner, report first; the owner decides whether it becomes the front.

Scout lanes (commission after the pilot gate, before the assembly freeze; L1 to L4)

L1: prior art at full-text grade (the list of M-R1 (a), plus the collective-dephasing literature of quantum information for the theorem's abstract form: "phase-twirled" or "collectively dephased" maximally correlated states). **L2**: the short-range data as cited: the torsion-balance curve at the relevant strengths, newer bounds (levitated spheres, the HUST group), each with its source; never re-derived. **L3**: occupancy and citers, dated (M-R9's list). **L4**: the four triggers re-dated at each leg.

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7. Runners-up and when-instead conditions

1. **QSG-NC (runner-up 1; runs regardless as PRE-Q).** Run *instead*, as the front, if the owner prefers a theory-side sentence about quantum gravity to an experiment-side note, or automatically if PRE-Q returns SURVIVOR. PRE-Q's order: (a) an independent generator written from sections 2.2 and 3.5 of 2603.25503, the three readings of the Bell-causality rule registered before any run; (b) H-E's three premises derived from the generator's relation set, or refuted (if they are consequences of the framework, the structure lemma holds in every dimension and the whole residue is the central square-zero element N); (c) is N forced to vanish: exact elimination on the Heisenberg-type families in dimensions 3 and 4, generic and special characters, all three readings; (d) typed outcomes of equal standing: COMMUTATIVE (a theorem with its hypotheses printed), SURVIVOR (explicit rational matrices), READING-DEPENDENT (a definition, reported as one), NOT-DECIDED-BELOW-CAPS. Altitude: a no-go, or a first example, inside one approach; never a sentence about the continuum. A courtesy note to the authors about the printed formulas the scout could not reproduce is the owner's call, never an agent's.
2. **CONTROL-2+1 as a standalone note.** Only if the owner wants seed S1's product as a document of its own rather than as the riders of lane M-R6. Its content is fixed either way: corollaries.

3. **TOPO-MAGIC (with OFF-SHELL).** As a front only if the owner rules that the bulk vector, not the alpha-diagonal boundary ensemble, is the object of interest, and wants a bridge from the LAMBDA line to a model of the gravitational path integral. Then its pilot is the five rows on an isolated engine copy, the antisymmetric neighbour as the mandatory OUTSIDE control, a code state as the INSIDE control, and hand predictions for the genus and level laws sealed at unseen cells first. Otherwise a data lane at doc 32's block (M-R8 (ii)). The judge's J-F1 says the first row is not decided by the certificates in hand.
4. **FINISH-D.** Run instead if the owner prefers the largest finished gravity object to a new note. First acts: a path-patched copy of the engine; the E-i pre-check (if additivity over payload qubits on one fiber follows from the decoupling theorem, E-i is a control; a multi-step curve would be the finding). FINISH-E follows it.
5. **BORROMEAN.** A front only if a registered law for sectors of dimension three and above survives a full-text reading of the coloured-link-invariant literature (the named-theorem test); otherwise the exhibit row of M-R6.
6. **The duties** LEDGER-26 = NULL-CHANNEL and TRUST-LADDER belong to the owner's G30-2 block (section 8). Their open cells, named so they are not lost: the exact optimal gap against all LOCC under terminal dephasing; the channel-separability boundary for localization noise in multi-path encodings; the optimal record family of the monitoring attack; the sizes printed "not committed" in 30a for R13, R17, R19.
7. **Watch items (never fronts).** EXTREMAL-48 (a published finite obstruction test with bounded arithmetic); a platform that superposes a Planck mass; MOVW's reference [7]; a 2+1 result in which a hold time is defined, so that the separation dependence of the total mass at nonzero cosmological constant becomes a protocol; the Gaussian line adopting path encoding; a posted closed form for the n-path protected negativity.
8. **The observer line, the witness-line decided shapes, the I-p3 class-extension line, the arithmetic lane and the 2+1 closed-universe tables**: closed as ruled (docs 22, 26, 29, 31; section 4 here).

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8. The post-meeting sweep: its status, and what it changes for docs 27, 30 and 32 (drafts for the owner; nothing applied)

Status. The sweep owed since 2026-10-30 (G26-2's post-meeting leg; the post-meeting part of G30-2; the version triggers of G31-3) is **discharged at scout grade** by `scout_dq6_perimeter_sweep.md` on 2026-11-11: 75 citer enumerations, 104 INSPIRE author feeds, 110 nets on two indices, all 37 recorded talks graded (slides opened for seven; recordings not watched), the conference exports diffed (79 to 74 contributions; every invited slot named). One leg, no adversarial re-verification. Its one refuted forecast, first: the framing-scoop trigger PF fired in the weak reading of its letter (an invited talk on an interacting clock inside a constraint: Giesel, PIRSA:26100012); the consequence the order of record attached to it is void, because the charged pair ran and stopped (doc 28). Its low-probability branch came in: Yokokura's Constraint Variance Identity is posted (2611.07015). Calendar residue: the speaker feeds of December 2026 and January 2027 fall to the standing per-export sweep unless the owner holds the block until February.

Doc 27 (ANCHOR-MARGIN): draft inputs for the one owner's block.

- *G26-2, post-meeting conjunct:* no kill and no new forces-rider against S-AM-1 to S-AM-SPLIT. At scout grade it can be ruled MET, and with it the last open line of the conditional unblocking of G26-3. The re-ruling is the owner's.
- *Rider re-wordings the sweep forces* (draft text in the scout's section 4.1; the sentences themselves are untouched): the CVI clause now cites the posted paper (a semiclassical statement about when a geometric clock is sharp; no self-consistent reading, no bound of the margin kind) and its ARMED-HIGH status ends; the interacting-clock rider names Chataignier and Smith 2610.28732, Semiao and Chataignier 2610.40791 and the Giesel talk (none asks whether a clock that sources the constraint it resolves has a self-consistent reading); the Perimeter rider is discharged into the per-export sweep; three must-cites are added.
- *G26-4* (the doc 13 section 4 pointer row): a fresh decision of the owner; the sweep supplies "no kill" and nothing more.
- *Still owed to the same block and untouched by the sweep:* SCOPE-CERT's riders R-SC1 to R-SC6 with the verifier's wording repairs, and the fold of S-AM-5's parenthetical that fails at nu >= 3/2.

Docs 30 and 30a (ADJUDICATOR): draft inputs for G30-2.

- No trigger fired; KA-3 not fired; no row flips; G30-1 and G30-3 are unaffected.
- Two row texts are newer than the versions 30a quotes: R10 (2601.21555 v2, 2026-10-01) and R23 (2609.09931 v2, 2026-11-05). The quoted sentences were re-found in the new texts; the frozen rule (a new version is re-read and its cell re-derived) is OWED for both; the scout expects no change.
- About a dozen accounts to flag, with no verdict until a dated re-registration types them: Feng and Vedral 2611.12229; Wang, Pedernales, Plenio 2611.05044; Matsui 2610.35253 and 2610.25994; Tobar, Aspelmeyer, Zych 2611.08313; Reginatto et al. 2609.31209; Sheng 2610.03726 (on R17); the shield-vibration channel 2604.22593 (it bears on Definition 1 clause (ii)); 2607.08819; the postselected-repulsion pair 2602.12266 and 2602.22715; platform rows 2610.22097, 2610.38840; row data 2611.08619, 2611.03159 and the white paper 2610.07422 (a new design point).
- One forces-rider: 21a section 7 and 30a section 9 need the 2611.12229 citation and one conditional clause (its witness is the Z-conditioned fringe quadrature of 21a's route (a'')); its gap is conditional on independently characterized dephasing, by its own scope paragraph).
- Rider candidates with numbers that two lanes computed independently: the path-dephasing separability threshold $r^* = 0.855798920$ (state and channel alike) and the white-noise channel threshold $F_{sep} = 1/(1 + 8\,|\sin(\Delta/2)|) = 0.444287$, so that $F_{sep} < F^* = 0.447344 < 0.864790$. Further drafted rows: the experiment scout's R-B1, R-B2, R-30a-1 to R-30a-3, R-M-1 and Lemma G; the adversary's R-3 and R-4; the corpus scout's R-DQ6-3. To be certified by an own route before any entry.

- From this pass: 2104.04414 is a must-cite for any sentence about common-mode noise; Carney 2108.06320 and Ashtekar 2211.01525 for Paper B's reading (II).

Doc 32 (LAMBDA): draft inputs for G31-3.

- KL-2 NOT FIRED: no printed two-qutrit hull membership, no odd-prime two-qudit vertex census; no scoop and no bracket of S-Lambda-1.
- The version trigger fired by its letter with empty content: 2605.09558 is at v4 (2026-11-08), its body sentence-identical to v3 (811 of 811); 2602.22336 is still v2.
- A precision owed when the copy-threshold clause is next written: Theorem 7 of 2605.09558 (a two-copy statement at d = 3 in another model class) is its nearest printed neighbour: NEAR, to be named; no inclusion between the two classes is known, none was computed.
- Still owed to G31-3 proper: the Lemma M and Lemma C cite-check rows, the simulator release check, two citation lines; G31-2 and the owner items of doc 32 section 9.5 are untouched.
- Candidate rows for the bridge lane, drafted by the scouts, none entered, all inheriting G31-2 and G31-3: the level-4 readout corollary; the genus g >= 2 corollary (Lemma C at four qutrits, gate-pending); the two-qubit row (CZ(Delta)|++> hosted at every coupling). The judge's datum beside them: the genus-one state is not decided by the 42 pinned functionals (minimum +9/128). In print there is still no bridge from the Lambda-polytope or the CNC phase space to gravity.

Other documents the sweep brushes. Doc 13: sentence untouched; Chandra, Liska, Post 2610.30247 (exact de Sitter partition functions with a heavy observer as a conical defect) joins the watch. Doc 25: nothing reaches it. Doc 12 and Paper F: scoop-watch re-dated; framing pressure on "observers in closed universes" at its highest; the paper's scope sentence is what protects it. Doc 15: its section 6.5 sentence should be read against 2610.28732 and 2610.40791 before any export (not done). Paper B: four NEAR items, no scoop, no bracket.

Order. One block per document, as README records, in the owner's hands: doc 27 first (it also unblocks OBSERVER CLOSE-OUT and Paper G), then G30-2, then doc 32's items and gates. None of them gates program RELATIVE.

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9. Honesty section: what the pass found, and what would make this the wrong choice

Is this formulation-level? No, for the reason doc 29 gave for its duty: the recommended program claims no discovery that a freeze could decide against it. Its theorem was decided at this freeze, by the judge's own pre-check, and is typed a corollary before any run; its decided conjuncts are its product; its live content is cells. The risk is thinness, and it is stated in the first line of section 5.

What would make this the wrong choice.

- **The owner wants progress on how gravity works, and this is a law of how an experiment reads gravity.** Three consecutive surveys (docs 29, 31 and this one, the last with two approved seeds and a new instrument built three times) found no discovery front on exact finite instruments. The reason is now visible as a pattern: the parts of quantum gravity that are exact and finite are exact because gravity has no local dynamics there (topological theories answer with their axioms) or because the gravity is Newtonian and slaved (the mediator is saturated by sixty orders); the house's method meets them and is answered by a definition. If the owner's bar is discovery altitude, the honest recommendation is not a different front but a different route: an instrument that does not exist yet (the watch items of section 7), or the acceptance that the house reaches sentences about gravity only on the witness line.
- **It may be printed.** The principle is (2104.04414); the path-encoded statement was not found on nine nets and thirteen full texts, which is a net-grade absence and not a proof. KR-1 prices it; the pilot's first act is the full-text pass.
- **The protection may not pay.** The protected state needs local coherence above about 0.93 to 0.96 against 0.90 for the unprotected benchmark; its negativity is seven to nine times below the noise-free three-path value; mismatch limits the rejection to two or three orders of tolerable phase, never the eight orders that separate the requirement from tabletop isolation (the scout's own riders). PROTECTION-DOES-NOT-PAY is a typed result and would be published as the finding.
- **The path-diagonal model may not survive the experimentalist.** Gradient noise, imperfect closure and unequal spacing histories are not common-mode phases, and the lemma says nothing about them. The steelman leg exists for this.
- **The law column's plot is occupied** (2609.22501; 2610.25994). The house's delta there is the ladder (two functionals with different zero sets) and the null rule, and it is small.
- **The lemma is three lines, and cheapness is a warning** (doc 31's words): the judge found it in an hour; the delta is the exact statement, the certified cells and the two legs.
- **A theory-side reader would rank QSG-NC first.** It is the one place where the method met a question its own field calls open, and both of its landings are sentences about quantum gravity. It is ranked second because its sentence concerns one approach and one paper's rules, and because its pre-check has already answered most of it. It runs anyway, as PRE-Q.
- **The judge's own probes are one leg.** The lattice identity stops at n = 8; the table scans are float; the Gaussian reading is by hand; H-E's premises are a scout's reading of one paper.

What altitude it truly has as a statement about gravity. INCREMENTAL. It is a statement about the gravitational potential as a pair of interferometers sees it: translation invariance and the equivalence principle decide which differences of the potential survive shared noise, and the phase reads the law between 30 and 70 um where no direct measurement has reached. It says nothing about the mediator and nothing about quantization. The mediator stays where the committed saturation map and this year's literature left it: about 10^-57 quanta per run, a commutator phase sixty orders below reach, a transient of at most two units of m_A m_B / m_Planck^2 in the committed class.

What decisive export it could compose into later (never claimed now). D1, the composition doc 29 named, with five closures this pass makes available: the protected-sector note E1-R; the law reading and the null rule at the 2026 design; the control universe (an exactly quantized gravity in which the experiment is exactly null and in which Theorem W's second reading is inhabited); the saturation map with its ceiling in Planck units and the printed commutator phase; the refreshed table. Together: what gravitationally induced entanglement proves, how to see it through shared noise, what it reads of the law of gravity, and what no experiment of its class can decide. Whether that is "something big" is the owner's call.

What the lesson did to this pass. It decided both seeds at scout cost, each by several lanes that did not read one another. It decided the scouts' own candidates by their own pre-checks (quantum sequential growth in dimension two; the higher rung of TOPO-MAGIC; the struck one-state candidate). It decided the recommended candidate's theorem by the judge's pre-check. The one first cell that a pre-check left open (the genus-one row) belongs to a toy. And it corrected three scouts once each on wording: an occupancy clause, a "yes", and a row without its encoding.

Lessons for the owner's list (drafted, not entered; continuing doc 32 section 9.6). (ee) The axiom test (corpus scout): before registering "does result X survive on instrument I", read I's defining axioms; an exactly solvable instrument answers with them. **(ff)** The encoding test (corpus scout; J-G): a typing question on an instrument with several natural registers is decided by the registration of the register; register all of them with parity, and never let a row travel without its encoding. **(gg)** The antecedent, named-theorem and dictionary tests (adversary): check that a theorem's antecedent can be met on the new instrument at all; search a natively exact community's theorems before any build; a sentence is a gravity sentence only if no step of its reading is a dictionary a physicist may decline. **(hh)** Re-net a scout's "none found" in the vocabulary of the neighbouring setting before ranking (the principle of RELATIVE was printed as "differential motion", not as "common-mode noise"). **(ii)** When a scout reports a numerical law, look for the block structure that turns it into a closed form before calling it a front. **(jj)** A "nothing is negative" statement from an exhaustive float search is repeated in exact integers whenever the float stage prints a flag; a pins script never changes directory before writing.

Every claim in this document inherits the corpus's standing wording bans: "undecidable", "gravity is a magic factory", "QM derived", "requires QM", the bare "cannot write history and keep perfect time", "no nonnegative model exists", "not simulable", "loophole-free" bare, "efficient" for any classical model. A null anywhere never feeds "gravity is classical"; a positive never feeds "gravity is quantum" (Theorem W's disjunction is the licensed form); a hosted row never feeds "classical" and an outside row never feeds a cost or advantage sentence; no 2+1 sentence is a sentence about 3+1 gravity; the margin theorem is never a gravity sentence. Licensing is never posting; release is the owner's call.

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10. Provenance of the judging

Read order: README.md; `00_DREAM_QUESTION.md`; the house procedure (whole); doc 29 (sections 0, 1, 3 to 8; the head of section 2); doc 31 (sections 0, 5 to 8); doc 32 (header, section 0); the seven scout reports (whole: adversary, 3d-instrument, 3d-literature, experiment, perimeter sweep, other-instruments, corpus); doc 22 section 6 and doc 26 section 2 (heads, for the axes); then the probe files named in the header. Judge-side computation, every forecast registered first (`dq6_judge_probe/registration.txt`, sha256 `d85b2b2ee295e5e61aaae1792d36fff8c26cdcef34d23179317c8ea94768e467`, stamped 2026-11-11 17:30:49.367 CET; scripts hashed 17:34:30.998; addenda 17:36:28.971 and 17:39:24.131): J-A (`primes_ja.py`, `.log`): 9,700,003, 9,800,003, 9,800,009, 9,800,027 prime; the five bases composite as printed in section 6; six first primes per band; sympy agrees on 34 numbers. J-B (`probe_JB_relative.py`, `probe_JB.log`): all five forecasts confirmed. J-C (`probe_JC_ladder.py`, `probe_JC.log`): three forecasts confirmed. J-E and J-G (`probe_JE_qsg_algebra.py`, `probe_JE.log`): confirmed. J-F (`probe_JF_topo_transport.py`, `probe_JF.log`, 32 s; `probe_JF2_exact.py`, `probe_JF2.log`, 48 s): J-F0, J-F1 and A-1 confirmed. J-D (`nets_JD.py`, `nets_JD.log`; `nets_JD2.py`, `nets_JD2.log`): nine INSPIRE nets, all returned; thirteen full texts, all returned (2312.05170, 2110.14695, 2007.15029, 2101.08086, 2610.07422, 2609.10697, 2610.38840, 2611.08313, 2611.05044, 2412.20462, 2307.07536, 2104.04414, 2403.02062), grep grade, kept in the scratchpad only; confirmed by its letter, with the qualification of section 5.3 item 3. A reading without a forecast: `read_2603.25503.log`. The engine copy lived in the session scratchpad and was imported only after its sha256 matched the pinned `9b601ecdff7e6a2e0bf04f509b234ba7bc1aab1976c992e107d8d89d4a86ba26`; no bytecode was written into the corpus. Canon pins (`pins.py`; 87 files, list sha256 `d71d88c804aa8e8f00d1ac18a978e0eefdaf2729b14c680db34d2f25b7a0cafb`): before 17:30:08.279, after the probes 17:43:33.621, final 17:55:36.341: byte-identical each time (this document is excluded from its own pin list). The perimeter and experiment scouts' whole-corpus pins record one file changed during the afternoon by the owner's web-archive job (`release/wayback/log-2026-11-11.txt`); this leg neither read nor touched it. No prime was drawn; no committed engine was executed in place; no committed document, engine or record was modified (README, memory and SUBMISSION_STATUS are the owner's to fold); no background process was launched or left running; `python3.12 -I` only. Files written: this document (in six appended chunks) and `dq6_judge_probe/` (registration, two addenda, eight scripts with their logs, the two count-asserted patchers of this document's own draft, three pin files, the reading log, `MANIFEST.sha256` written last). Nothing was posted. The ranking is refutation-led against the scouts' own registrations and wording and against the owner's seeds as he worded them.