VIII-Defect-A: Local non-promotion of form and cone defects; pulse controls; a power-law coexistence family; and the refusal of global three-class disjointness

The Hawk07 pulse is bounded (not class (C)); finite angle and blow-up coexist on a displayed family; layers (K), (P), (C) stay distinct; Problem 9 named, not solved

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A short submission note: author attribution follows the supplied VIII/V/I-B/Hawk07 materials.

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Abstract

Standing ledger. Host A and Host B stay separate prescribed backgrounds. Host C is not created. O.1 stays NOT_CLOSED. XV-B is not opened. XVI-N is not discharged. Gate 0 and ST4b stay NOT_SUPPLIED. No quantum coefficient is admitted. No Einstein dynamics, derived metric, spacetime emergence, Page curve, island, vacuum energy, or quantized relational time without an external clock is claimed. A source record is not a premise. The OpenAI catalogue is not a premise. Printed numbers are conditional calculations, not measurements. No dark-matter particle species is derived.

What is new in version 2 (request t371u, plan item 6; findings F23/DC15). (1) *Pulse estimate, not class (C).* On the Hawk07-C-Dyn exterior curvature pulse

$$R[g] = -\frac{4\beta}{c\,a_\infty^2 F}\,s'(\eta - r/c) < 0$$

while the front passes (and $R = 0$ before and after), an explicit lower bound $F \geq F_* > 0$ and $\|s'\|_\infty \leq M$ give a uniform bound on $|R|$ on a retained region Q. If the metric extends smoothly and nondegenerately to a

neighbourhood of the compact closure of Q, every scalar polynomial curvature invariant is bounded on Q (Theorem ; findings defect:thm:pulse). The pulse is a metric-curvature deformation with bounded curvature on the controlled region, or else a class-(K) deformation on an unchanged background reading; it is *not* a class (C) blow-up example there. (2) *Power-law coexistence family.* For every $q > 0$ the prescribed conical power-law host retains the finite spatial deficit $2\pi(1 - \alpha)$ while $\mathcal{K} \sim u^{-4} \to \infty$ (Theorem ; findings defect:thm:family). The radiation case $q = \frac{1}{2}$ recovers Proposition and matches the Early-Blow-A radiation prefix on regular developing charts ($R = 0$, $\mathcal{K} = 24H^4/c^4$), with a conical spatial factor (Corollary). (3) *Layers stay distinct.* Class (K) on an unchanged metric, class (P) on a regular cone, and class (C) on a radiation-scaled cone remain distinct layers of structure. No map of the declared class sends one into another on the image of a bounded-curvature source region (Corollary). (4) *No global exclusion; no defect removed.* Version 1's local non-promotion (Theorem) and corrected boundary (Corollary) are retained. No conical defect or kernel singularity is removed. IX-D-ST's null-cone kernel stays a documentary fixed-host record.

Retained from version 1 (every label and result unchanged). Definition ; Remark ; Documentary records , ; Theorems , , ; Remark ; Proposition ; Corollary . Plan corrections PC14-VIII and draft corrections DC14 stay on the record.

Plan corrections PC15-VIII (findings preferred) are recorded in Appendix . The pulse-not-(C) and coexistence-as-radiation-prefix targets are held, enriched by the power-law family. No PC15 API mismatch is recorded for the cited V/VIII-A/I-B/IX-D-ST/Hawk07-C-Dyn labels.

Why it matters. Form and cone defects stay separated from promotion to Problem 9's missing cosmological sentence, without claiming that (K), (P), and (C) never occur together, and without reclassifying a bounded pulse as a curvature blow-up.

O.1 stays NOT_CLOSED, XV-B is not opened, XVI-N is not discharged, Gate 0 stays NOT_SUPPLIED, and no metric evolution is claimed. No quantum coefficient is admitted. Citations identify source records only; no proof transfer.

Bibliographic record

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Official Version 2 was dated 26 October 2026 (request t371u). The present typographic successor is Version 3 (request t566u; wired=false). It adds a parseable bibliography and documentary remarks; official Version 1 and Version 2 typestate objects are retained and are not relabelled.

Scope and sources

The sources are the read-only GET records VIII-A, V, I-B, IX-D-ST, and Hawk07-C-Dyn, together with the Early-Blow-A version 2 deliverable as a sibling source record (Appendix) [11, 18, 4, 17, 14, 15]. Citations identify source records only; no proof transfer.{} Statements that this sheet needs, but does not re-prove, are printed as Documentary records – and , . They restate source records and are not premises imported by citation. Every conclusion below is conditional on exactly these hypotheses. Early-Blow-A is cited as a source record only

for the radiation-prefix curvature formulas; no premise is transferred. Problem 9 stays named, not solved.

Three properties

Definition (Three distinct properties). The following describe different mathematical properties of geometric or distributional data:

(K) singular support or wavefront of a distributional kernel or form on a prescribed smooth background (kernel / transfer / Ward-type singularities);

(P) a finite conical angle defect, with a retained worldsheet or particle locus and a regular part that is locally isometric to a flat or bounded-curvature model;

(C) unbounded metric curvature along an approach to a cosmological boundary, or a separately specified cosmological continuation (a bounce through such a singularity). These are properties of data, not assumed to be mutually exclusive properties of an entire model. A single host may exhibit more than one of them on different loci or in different layers of structure.

Documentary crosswalk only. Official Series-VIII-Enter-A Version 3 uses (K) for a kinematic defect and (P) for a prepared-response defect [13]. That is a symbol clash with the official labels of this sheet, which are not relabelled. If a four-tag comparison is wanted, it is documentation only: (K_{form}) for this sheet's class (K) (distributional form / Ward defects); (K_{cone}) for Enter-A's kinematic cone reading, which is not this sheet's (K); (R_{prep}) for Enter-A's prepared-response (P); (C_{curv}) for this sheet's class (C) (curvature blow-up). Official labels def:class, thm:K, thm:P, and classes (K)/(P)/(C) stay as in Definition . Enter-A Version 4 is not cited.

Remark (Declared class of maps). Throughout, the *declared class* of maps consists of

1. local isometries $F : U \to V$ between open Lorentzian regions, and

2. distributional extensions of forms or currents on a background metric that is held fixed (unchanged as a C^{∞} tensor). Neither class, by itself, is a general cosmological continuation theorem. Local isometries preserve scalar curvature invariants on their images; distributional extensions on an unchanged metric do not alter those

invariants.

Documentary source records

Documentary record (Ward defect on a fixed background). V thm:defect [18] records the complete Ward defect

$$\mathbf{H} := K^{*}\mathbf{J}_{\mathrm{raw}} = \gamma + \delta(t)a + \delta'(t)b,$$

with smooth compact coefficient data γ, a, b on a prescribed Minkowski background. The singular support is of **H**, not of a replacement metric. IX-D-ST eq:host [17] and IX-D-ST prop:fixedhost [17] record a prescribed conical host whose description changes do not evolve the metric; null-cone kernel evaluations on that host remain distributional data on a fixed background.

par *Non-claim.* Documentary record does not remove the Ward defect, does not admit a quantum coefficient, and does not identify a form singularity with a cosmological curvature blow-up. Ledger unchanged: no quantum coefficient is admitted; Host C is not created; O.1 stays NOT_CLOSED; XVI-N is not discharged; Problem 9 stays named, not solved. par

Documentary record (Cone, worldsheet, and particle angles). I-B eq:metric [4] records the prescribed cone

$$g = -c^2\mathrm{d}T^2 + \mathrm{d}r^2 + \alpha^2 r^2 \mathrm{d}\varphi^2 + \mathrm{d}z^2,$$

with singular completion locus $\mathscr{W} = \mathbb{R}_T \times \{o\} \times \mathbb{R}_z$ (I-B eq:worldsheet [4] (source record; not a premise)), a two-dimensional worldsheet rather than a worldline. I-B prop:holonomy [4] records local flatness on the regular part via the developing map I-B eq:development [4] (source record; not a premise). VIII-A A:prop:particle-defects [11] records the intrinsic particle angle defects

$$\kappa_P^{-} = 2\pi - 3\arccos(-4/5), \qquad \kappa_P^{+} = 2\pi - 6\arctan(4/5),$$

and states that they are not the spacetime deficit $\pi/2$.

par *Non-claim.* Documentary record does not remove the conical defect, does not resolve a kernel singularity, and

does not promote a finite angle to a curvature blow-up. Ledger unchanged: no quantum coefficient is admitted; Host C is not created; O.1 stays NOT_CLOSED; XVI-N is not discharged; Problem 9 stays named, not solved. par

Documentary remark (supported laboratory). Attached typographic parent VIII-ST Version 1 records a supported laboratory in which the operational tube is compact and disjoint from the worldsheet, and a worldsheet is not a worldline (def:support) [12]. That sentence is already consonant with Documentary record . It is documentation, not a new theorem of this sheet and not a premise. VIII-ST Version 2 is not cited.

Class (K): form defects do not move the metric

Theorem (A singularity of class (K) is not class (C)). *On a fixed Minkowski background, let*

$$\mathbf{H} = \gamma + \delta(t)a + \delta'(t)b$$

be a well-defined distributional covector with smooth coefficient data, as in Documentary record . Then the background metric remains the smooth flat Minkowski metric, irrespective of the singular support of **H**. *In particular every scalar polynomial curvature invariant of the background vanishes identically, and the singularity of* **H** *is not of class (C).*

Proof. The metric components and all their derivatives are unchanged: **H** is additional covector data, not a replacement for $g_{\mu\nu}$. The Riemann tensor of the background is computed from g alone, so it remains zero. Unbounded curvature along a cosmological approach would require a metric argument whose curvature scalars diverge; no such metric change is present. Hence the singularity is of class (K) and not of class (C).

par *Non-claim.* Theorem does not remove the Ward defect, does not resolve the kernel singularity of IX-D-ST, and does not claim that every distributional singularity is harmless on every background. It addresses form singularities on an unchanged smooth metric. Ledger unchanged: no quantum coefficient is admitted; Host C is not created; O.1 stays NOT_CLOSED; XVI-N is not discharged; Problem 9 stays named, not solved. par

Class (P): finite angle, bounded regular curvature

Theorem (A defect of class (P) is not class (C) by itself). *Let g be the prescribed cone of Documentary record on the regular part r > 0. Then:*

1. *every point of the regular part admits a developing isometry into Minkowski space, so the Riemann tensor and all its scalar polynomial contractions vanish on the regular part;*

2. *the particle angles of VIII-A A:prop:particle-defects [11] satisfy*

$$\kappa_P^- < 0 < \frac{\pi}{2} < \kappa_P^+,$$

so both are finite and arithmetically separated from the positive spacetime deficit $\pi/2$*;*

3. *the completion locus is the worldsheet* $\mathscr{W}$ *of I-B eq:worldsheet [4]* (source record; not a premise)*, not a cosmological curvature blow-up. In particular a defect of class (P), taken on this prescribed cone, is not of class (C).*

Proof. On a sufficiently small angular lift the developing map

$$\mathrm{dev}\,(T, r, \varphi, z) = (T, r\cos(\alpha\varphi), r\sin(\alpha\varphi), z)$$

of I-B eq:development [4] pulls g back from Minkowski space with metric $-c^2\mathrm{d}T^2 + \mathrm{d}x^2 + \mathrm{d}y^2 + \mathrm{d}z^2$. Local isometries preserve the Riemann tensor, so every scalar polynomial curvature invariant vanishes on the regular part. For the angles: $\arccos(-4/5) > 2\pi/3$ because $\cos(2\pi/3) = -1/2 > -4/5$ and arccos is decreasing on $[-1, 1]$; hence $3\arccos(-4/5) > 2\pi$ and $\kappa_P^- < 0$. Also $0 < \arctan(4/5) < \pi/4$ because $\tan(\pi/4) = 1 > 4/5$, so $6\arctan(4/5) < 3\pi/2$ and

$$\kappa_P^+ = 2\pi - 6\arctan(4/5) > \frac{\pi}{2}.$$

Finite values of $\kappa_P^\pm$ are not an unbounded curvature invariant. The worldsheet $\mathscr{W}$ is the conical completion locus of the prescribed metric, not an approach along which a curvature scalar of the regular part diverges.

par *Non-claim.* Theorem does not remove the conical defect, does not forbid coexistence of a finite-angle defect with a curvature blow-up on a *different* host or layer (Proposition), and does not produce a bounce. Ledger unchanged: no quantum coefficient is admitted; Host C is not created; O.1 stays NOT_CLOSED; XVI-N is not discharged; Problem 9 stays named, not solved. par

Corrected non-promotion

Theorem (Local non-promotion under the declared class). *Let $I[g]$ be a scalar polynomial curvature invariant of the metric, and let U be an open Lorentzian region on which $|I[g]| \le B < \infty$. Then:*

1. *if $F : U \to V$ is a local isometry, then $|I[\tilde{g}]| \le B$ on $F(U)$; in particular F cannot produce an unbounded value of I on the image of U;*

2. *if a distributional form or current is extended on a background metric that is held fixed as a C^∞ tensor, then $I[g]$ is unchanged. Consequently there is no map in the declared class of Remark that turns a (K) or (P) source region of bounded curvature into a class (C) unbounded-curvature approach covering the image of that same region.*

Proof. Naturality of scalar polynomial curvature invariants under local isometries gives $I[g](x) = I[\tilde{g}](F(x))$ for every $x \in U$. The bound B therefore holds on $F(U)$. For a distributional extension on an unchanged metric, the metric argument of I has not changed, so $I[g]$ is identical before and after the extension. Class (C) requires an approach on which a curvature scalar is unbounded. Neither operation manufactures such an approach on the image of a previously bounded source region.

par *Non-claim.* Theorem is the corrected form of the plan's unrestricted "no map from (K) or (P) to (C)". It does not assert that (K), (P), and (C) are globally disjoint properties of entire models. A local isometry into one regular part of a larger target says nothing about a different part of that target. Neither distributional extension nor local isometry is a general cosmological continuation theorem. No conical defect or kernel singularity is removed. Ledger unchanged: no quantum coefficient is admitted; Host C is not created; O.1 stays NOT_CLOSED; XVI-N is not discharged; Problem 9 stays named, not solved. par

Remark (Image coverage). To exclude a target singular approach by Theorem , the image $F(U)$ must cover the approaching region under discussion. A local isometry into one regular part of a larger target does not constrain curvature on a complementary approach that is not in the image.

Coexistence: why global disjointness fails

Proposition (A finite cone angle can coexist with curvature blow-up). *Let* $H_0 > 0$, $t_s = -1/(2H_0)$, $0 < \alpha \le 1$, *and prescribe*

$$g = -c^2\mathrm{d}t^2 + (1 + 2H_0 t)\,(\mathrm{d}r^2 + \alpha^2 r^2 \mathrm{d}\varphi^2 + \mathrm{d}z^2), \qquad t > t_s, \quad r > 0.$$

Every spatial slice retains the finite conical deficit $2\pi(1 - \alpha)$ *(class (P) data), while*

$$R_{abcd}R^{abcd} = \frac{24H_0^4}{c^4(1 + 2H_0 t)^4} \to \infty \quad \text{as} \text{downarrow}\, t_s$$

(class (C) data on the same host). Thus (P) and (C) are not globally exclusive.

Proof. On an angular developing chart the spatial metric is Euclidean, so the spacetime is locally the flat-spatial FLRW metric with

$$a = \sqrt{1 + 2H_0 t}, \qquad H = \frac{H_0}{1 + 2H_0 t}, \qquad \dot{H} = -2H^2.$$

In an orthonormal frame the only nonzero curvature components yield

$$R_{abcd}R^{abcd} = \frac{12}{c^4}[(\dot{H} + H^2)^2 + H^4] = \frac{24H^4}{c^4} = \frac{24H_0^4}{c^4(1 + 2H_0 t)^4}.$$

The spatial conical circumference-to-radius ratio remains $2\pi\alpha$, so the deficit $2\pi(1 - \alpha)$ is finite and constant in t. The metric is a prescribed input; the formulae are metric calculations, not a solution of a field equation.

par *Non-claim.* Proposition is a prescribed counterexample to global three-class disjointness. It does not derive the scale factor, does not construct a bounce through t_s, and does not solve Problem 9. The host is an input. Ledger unchanged: no quantum coefficient is admitted; Host C is not created; O.1 stays NOT_CLOSED; XVI-N is not

discharged; Problem 9 stays named, not solved. par

Corollary (Corrected boundary of the three-way reading). *The three properties of Definition stand as a classification of distinct kinds of singular or defective data, together with the local non-promotion Theorem . They do not form a theorem of global mutual exclusion: Proposition exhibits coexistence of finite-angle (P) with cosmological blow-up (C) on one prescribed host. The plan sentence that "the three-way split is now a theorem" of unrestricted disjointness is therefore corrected (PC14-VIII-2). No map of the declared class turns (K) or (P) into (C) on the image of a bounded source region; coexistence on different layers or loci remains possible.*

par *Non-claim.* Corollary does not remove any conical defect or kernel singularity, does not open a cosmological bounce, and does not close Problem 9. The missing sentence remains named, not solved. Ledger unchanged: no quantum coefficient is admitted; Host C is not created; O.1 stays NOT_CLOSED; XVI-N is not discharged; Problem 9 stays named, not solved. par

Version 2: pulse controls

Documentary record (Hawk07-C-Dyn exterior curvature pulse). Hawk07-C-Dyn eq:curvature-pulse [14] records that after the scale factor has settled, and in the exterior $r > r_1$,

$$R[g] = -\frac{4\beta}{c\,a_\infty^2 F}\,s'(\eta - r/c) < 0 \quad \text{when} 0 < u < \tau_f,$$

with $a_\infty > 0$, and that the same exterior has $R = 0$ before the front and after its passage. The deformation is recorded there as not merely a changing coordinate description of a locally flat static cone.

par *Non-claim.* Documentary record does not import Hawk07-C-Dyn's source construction, NEC statements, or string-core energy as premises. It does not classify the pulse as class (C). Ledger unchanged: no quantum coefficient is admitted; Host C is not created; O.1 stays NOT_CLOSED; XVI-N is not discharged; Problem 9 stays named, not solved. par

Theorem (The exact estimate supplied by the pulse formula). *Suppose the prescribed pulse has*

$$R = -\frac{4\beta}{c\,a_\infty^2 F}\,s'(\eta - r/c), \qquad a_\infty > 0,$$

on a retained region Q, as in Documentary record . If

$$F \geq F_* > 0, \qquad \|s'\|_\infty \leq M,$$

then

$$\sup_Q |R| \leq \frac{4|\beta|M}{c\,a_\infty^2 F_*}.$$

If, additionally, the metric extends smoothly and nondegenerately to a neighbourhood of the compact closure of Q, every scalar polynomial curvature invariant is bounded on Q.

Proof. The first estimate is immediate from the displayed formula : on Q,

$$|R| \leq \frac{4|\beta|}{c\,a_\infty^2 F_*}\,\|s'\|_\infty \leq \frac{4|\beta|M}{c\,a_\infty^2 F_*}.$$

For the second assertion, smoothness, nondegeneracy, and compactness bound the metric inverse and curvature components in finitely many regular charts. Their finite polynomial contractions are bounded.

par *Non-claim.* Theorem (findings defect:thm:pulse) does not assert a uniform bound on a larger open domain without the corresponding denominator and full-metric controls. Positivity of F at individual points is not a uniform lower bound. The theorem does not remove a conical defect, does not resolve a kernel singularity, and does not claim global exclusion of class (C) elsewhere on a larger host. Ledger unchanged: no quantum coefficient is admitted; Host C is not created; O.1 stays NOT_CLOSED; XVI-N is not discharged; Problem 9 stays named, not solved. par

Remark (Two distinctions required for the pulse reading). A smooth curvature pulse is not automatically a class-(K) kernel singularity. It is a metric-curvature deformation. Also, a bound on the displayed Ricci scalar alone does not prove a bound on every curvature invariant without the metric controls of the second clause of Theorem .

Thus the pulse is not a curvature-blow-up example on the controlled region of Theorem : it is either a bounded

metric-curvature deformation, or (on an unchanged-background reading of additional distributional data) a class-(K) layer in the sense of Theorem . It is not class (C) on that controlled region.

Version 2: a power-law coexistence family

Documentary record (Radiation-prefix curvature; restates Early-Blow-A). Early-Blow-A dec:host [15] and Early-Blow-A thm:H [15] record the prescribed radiation-prefix host with $a = \sqrt{2H_0 u}$ on $u > 0$. Early-Blow-A thm:scalar [15] records $R = 0$ with

$$\mathcal{K} : = \frac{24H_0^4}{c^4(1 + 2H_0 t)^4} = \frac{24H^4}{c^4} \to \infty \quad \text{as} u \text{downarrow} 0.$$

Early-Blow-A is a different finite-time host and is cited here only as a source record for these formulas.

par *Non-claim.* Documentary record does not import Early-Blow-A's fixed-chart degeneracy obstruction or C^2 endpoint theorem as a premise, and does not identify the conical coexistence host with a bounce. Ledger unchanged: no quantum coefficient is admitted; Host C is not created; O.1 stays NOT_CLOSED; XVI-N is not discharged; Problem 9 stays named, not solved. par

Theorem (A power-law family with both finite angle and blow-up). *For $q > 0$, prescribe*

$$g = -c^2 \mathrm{d}u^2 + \left(\frac{u}{u_*}\right)^{2q} (\mathrm{d}r^2 + \alpha^2 r^2 \mathrm{d}\varphi^2 + \mathrm{d}z^2), \qquad u > 0, \quad r > 0,$$

where $u_* > 0$ and $0 < \alpha < 1$. Then the spatial angle deficit is always $2\pi(1 - \alpha)$, while

$$R = \frac{6q(2q - 1)}{c^2 u^2},$$

$$\mathcal{K} = \frac{12q^2((q - 1)^2 + q^2)}{c^4 u^4} \to \infty \quad \text{as} u \text{downarrow} 0.$$

In particular finite-angle class (P) data and class (C) blow-up coexist on every member of this displayed family (findings defect:thm:family).

Proof. At fixed u, the circumference-to-radial-distance ratio is $2\pi\alpha$, independently of the scale, so the deficit

$2\pi(1-\alpha)$ is finite and constant in u. A local angular developing map makes the spatial metric Euclidean. There the Hubble rate and acceleration are

$$H = \frac{q}{u}, \qquad A = \frac{q(q-1)}{u^2}.$$

Substitution into the flat-spatial FLRW identities

$$R = \frac{6}{c^2}(A + H^2), \qquad \mathcal{K} = \frac{12}{c^4}(A^2 + H^4)$$

gives –. The coefficient of $\mathcal{K}$ is positive for every $q > 0$, so $\mathcal{K} \to \infty$ as $u$downarrow 0.

par *Non-claim.* Theorem is a prescribed family. It does not derive the scale factor, does not construct a bounce through $u = 0$, does not remove a conical defect, and does not solve Problem 9. Changing a distribution on an unchanged background does not perform this time-dependent rescaling. Ledger unchanged: no quantum coefficient is admitted; Host C is not created; O.1 stays NOT_CLOSED; XVI-N is not discharged; Problem 9 stays named, not solved. par

Corollary (The radiation coexistence host is locally the same geometry). *For*

$$q = \frac{1}{2}, \qquad u_* = \frac{1}{2H_0},$$

the scale factor is exactly $\sqrt{2H_0}u$. *On its regular developing charts,*

$$R = 0, \qquad \mathcal{K} = \frac{24H^4}{c^4} = \frac{3}{2c^4u^4}.$$

Thus Proposition is the radiation member of the family of Theorem , and on regular developing charts it is locally isometric to the Early-Blow-A radiation prefix of Documentary record . The conical host and the ordinary radiation host are locally isometric there, but their global angular identifications are not thereby identified.

Proof. Substitute $q = \frac{1}{2}$ into –: $2q - 1 = 0$ so $R = 0$, and

$$\mathcal{K} = \frac{12 \cdot \frac{1}{4}((\frac{1}{2}-1)^2 + (\frac{1}{2})^2)}{c^4u^4} = \frac{3}{2c^4u^4} = \frac{24H^4}{c^4}$$

with $H = 1/(2u)$. The metric of Proposition is the same prescription in the coordinate $t = u + t_s$. Local developing isometries into the flat-spatial radiation metric are those of the proof of Proposition . The Early-Blow-A formulas of Documentary record match on those charts.

par *Non-claim.* Corollary does not identify global angular structure with the non-conical radiation host, does not continue past the excluded endpoint, and does not call either host a bounce. Early-Blow-A remains a source record only. Ledger unchanged: no quantum coefficient is admitted; Host C is not created; O.1 stays NOT_CLOSED; XVI-N is not discharged; Problem 9 stays named, not solved. par

Corollary (Layers remain distinct under the declared class). *The following remain distinct layers of structure:*

1. *class (K) on an unchanged smooth metric (Theorem);*

2. *class (P) on a regular cone of bounded (here vanishing) regular curvature (Theorem);*

3. *class (C) on a radiation-scaled cone, or on any member of the family of Theorem . No map of the declared class of Remark sends one of these layers into another on the image of a bounded-curvature source region. In particular a local isometry from a bounded region cannot create divergent values of the same invariant on its image, and a distributional extension on an unchanged background does not perform the time-dependent conical rescaling of Theorem .*

Proof. Items (1)–(3) are the conclusions of Theorems , and (with Proposition) on their displayed hosts. The non-promotion statement is Theorem applied to each layer separately: a local isometry preserves the bound on any scalar polynomial curvature invariant on the image of a previously bounded region, and a distributional extension on a fixed metric leaves those invariants unchanged. The pulse of Theorem sits in the bounded-deformation / class-(K) reading of Remark , not in layer (C) on its controlled region.

par *Non-claim.* Corollary does not assert global three-class disjointness of entire models, does not remove any conical defect or kernel singularity, and does not close Problem 9. Coexistence of (P) and (C) on different layers of one prescribed host remains as in Proposition and Theorem . Ledger unchanged: no quantum coefficient is

admitted; Host C is not created; O.1 stays NOT_CLOSED; XVI-N is not discharged; Problem 9 stays named, not solved. par

Documentary remarks (vacuum non-selection; prescribed hosts). Official Big-Vac-A Version 2 is a source record only: coexistence of (P) and (C) is not a vacuum-energy selection [16]. No vacuum-fibre theorem is typestated on this sheet. Official I-D-v5 is the dynamical-host comparison [7]; this sheet's hosts stay prescribed. A Scholar display reading "ID-v6 Dynamical Spacetime Enter over Two Prescribed Hosts" is a display only; it does not retitle the official work.

The following Scholar-facing corpus records are named as source records, not as premises, and not as Green, clock, or observation-boundary theorems of this sheet: the indexed Enter calculus [1]; the Philosophy of Enter essay [2]; I-C-v2, the Shredder Interface [3]; IBG and IBGS, which this package does not supply as a conical Green or a spin-1/spin-2 inverse [5, 6]; VII-E and Landmark VII-G [8, 9]; and En09-A, whose destructive clock consumes a finite encoding, not the geometric time axis [10].

Status

• Written (v1, retained): three-property classification without global disjointness (Definition); class (K) not (C) on a fixed background (Theorem); class (P) finite and regularly flat (Theorem); local non-promotion under the declared class (Theorem); coexistence counterexample (Proposition); corrected boundary (Corollary).

• Written (v2): pulse estimate under explicit denominator bound (Theorem); power-law coexistence family (Theorem); radiation identification with Early-Blow-A as source record (Corollary); layers distinct under the declared class (Corollary).

• Written (v3, typographic): a parseable bibliography; documentary supported-laboratory, vacuum-non-selection, prescribed-host, and symbol-crosswalk remarks. No theorem is relabelled and no new theorem is added.

• Left open: removal of a conical defect; resolution of a kernel singularity; a cosmological singularity or bounce derived rather than prescribed; Problem 9 as a whole; global exclusion of any of (K), (P), (C).

• Untouched: O.1 stays NOT_CLOSED; Gate 0 and ST4b stay NOT_SUPPLIED; XV-B is not opened; XVI-N is not discharged; Host C is not created; No quantum coefficient is admitted. Host A and Host B stay separate prescribed backgrounds. Host C is not created. O.1 stays NOT_CLOSED. XV-B is not opened. XVI-N is not discharged. Gate 0 and ST4b stay NOT_SUPPLIED. No quantum coefficient is admitted. No Einstein dynamics, derived metric, spacetime emergence, Page curve, island, vacuum energy, or quantized relational time without an external clock is claimed. A source record is not a premise. The OpenAI catalogue is not a premise. Printed numbers are conditional calculations, not measurements. No dark-matter particle species is derived.

appendix

Plan crosswalk (t369u item 5; retained)

Binding plan PLAN_t369u.md (sha256 50ec51fffb781c85dbf370f350b80d676d583cb3d97c23af1555464a76d1d8a4), sheet VIII-Defect-A. Version 1 verdicts retained; not reopened.

toprule Plan label Plan text (compressed) Verdict Proved form / where

midrule endhead def:class three classes (K), (P), (C) held (not disjoint) Definition ; mutual exclusion refused

thm:K (K) has distributional current on smooth background; not (C) held Theorem

thm:P (P) finite angle, regular part bounded; not (C) held Theorem

thm:nomap no map sending (K) or (P) to (C) corrected Theorem ; PC14-VIII-1 (local non-promotion, not global disjointness)

cor:boundary three-way split is now a theorem corrected Corollary ; PC14-VIII-2

Does not remove conical defect or resolve kernel singularity kept Status ; non-claims

bottomrule

Plan corrections PC14-VIII and draft corrections DC14 (retained)

Source: binding plan PLAN_t369u.md (sha256 50ec51fffb781c85dbf370f350b80d676d583cb3d97c23af1555464a76d1d8a4), item 5; user findings excerpt findings/VIII-Defect-A.tex (sha256 85f8ec27d48c31934f230752bf1c9ba8852343f9b6770866d42114950def3d5c), series F22/DC14. Every item was re-proved or re-checked against the fetched source records. Not reopened in version 2.

toprule ID Finding or plan text Verdict Proved form / where

midrule endhead DC14-VIII-1 Three distinct properties; not assumed mutually exclusive held Definition

DC14-VIII-2 Form defect need not change metric curvature held Theorem

DC14-VIII-3 Fixed cone has zero regular curvature; particle angles finite and separated from $\pi/2$ held Theorem

DC14-VIII-4 Local non-promotion by invariant-preserving operations on the same approaching region held Theorem

DC14-VIII-5 Finite cone angle can coexist with curvature blow-up held Proposition

DC14-VIII-6 No conical defect or kernel singularity removed; Problem 9 stays named held Status ; non-claims

PC14-VIII-1 Plan thm:nomap: unrestricted "no map sending (K) or (P) to (C)" / globally disjoint classes corrected (false as stated) Findings: local isometries preserve curvature bounds on images; (P) and (C) can coexist. Proved form: Theorem (local non-promotion under declared class). Global disjointness refused by Proposition

PC14-VIII-2 Plan cor:boundary: "the three-way split is now a theorem" of mutual exclusion corrected Corollary : classification plus non-promotion; not global exclusion

PC14-VIII-3 Plan: three classes as a partition of singular behaviour clarified Definition as properties of data; a host may carry more than one

bottomrule

Version 1 to version 2 crosswalk

Every version 1 label is kept. New labels are added only.

toprule Version 1 label Status in v2 Version 2 addition Where

midrule endhead def:class kept — Definition

rem:maps kept — Remark

doc:K, doc:P kept — Documentary records ,

thm:K, thm:P kept — Theorems ,

thm:nomap, rem:image kept — Theorem ; Remark

prop:coexist, cor:boundary kept — Proposition ; Corollary

— new doc:pulse Documentary record

— new thm:pulse Theorem (findings defect:thm:pulse)

— new rem:pulse Remark

— new doc:early Documentary record

— new thm:samehost Theorem (findings defect:thm:family)

— new cor:identify Corollary

— new cor:layers Corollary

bottomrule

Plan crosswalk (t371u item 6)

Binding plan PLAN_t371u.md (sha256 prefix dbb92121759832d7…), item 6; findings F23/DC15 excerpt

findings/VIII-Defect-A.tex (sha256 prefix dfe02fdff0961e8e…); full attached results sha256 prefix

0087e2c81beef6ac…. Findings override the plan where they correct a proposed claim.

toprule Plan label Plan text (compressed) Verdict Proved form / where

midrule endhead thm:pulse / defect:thm:pulse Hawk07 pulse has *R* bounded on declared interval; class (K) or bounded-curvature deformation, not (C) held (enriched) Theorem ; Remark ; Documentary record

thm:samehost / defect:thm:family coexistence = radiation prefix + conical factor; power-law family with finite angle and blow-up held Theorem ; Corollary ; Proposition

cor:layers (K)/(P)/(C) remain distinct layers; no declared-class map sends one to another on image of bounded region held Corollary ; retains Theorem

Does not remove a defect; claim global exclusion; reopen local non-promotion as global disjointness kept Status ; Corollary

IX-D-ST null-cone kernel documentary kept Documentary record

bottomrule

Plan corrections PC15-VIII and draft corrections DC15

Source: binding plan PLAN_t371u.md (sha256 prefix dbb92121759832d7…), item 6; user findings excerpt findings/VIII-Defect-A.tex (sha256 prefix dfe02fdff0961e8e…), series F23/DC15; full attachment sha256 prefix 0087e2c81beef6ac…; common brief BRIEF_common.md (sha256 prefix 7885aa89ae48b1d0…). Every item was re-proved or re-checked against the fetched source records. Early-Blow-A is cited as a source record only.

toprule ID Finding or plan text Verdict Proved form / where

midrule endhead DC15-VIII-1 Pulse estimate uniform under explicit denominator bound; full-curvature control needs metric controls held Theorem

DC15-VIII-2 Smooth pulse is not automatically class-(K); bound on *R* alone does not bound every invariant without metric controls; pulse not a blow-up on the controlled region held Remark

DC15-VIII-3 Power-law conical family exhibits finite angle with $\mathcal{K} \to \infty$; radiation case recovers $R = 0$, $\mathcal{K} = 24H^4/c^4$ held Theorem ; Corollary

DC15-VIII-4 No global exclusion; no defect removal; local isometry from a bounded region cannot create divergent values on its image held Corollary ; Theorem

PC15-VIII-1 Plan: pulse is not class (C) held Theorem ; Remark

PC15-VIII-2 Plan: coexistence = radiation prefix of Early-Blow-A with conical spatial factor held Corollary ; Early-Blow-A source record only

PC15-VIII-3 Plan: cor:layers; retain local non-promotion; do not claim global exclusion; do not remove a defect held Corollary ; Status

PC15-VIII-4 IX-D-ST null-cone kernel stays documentary; Early-Blow-A not a premise held Documentary records , ; no premise transfer

bottomrule

Source records

Fetched read-only on 26 October 2026 (UTC) via GET https://enter.grok.me/api/manuscript/<ID> for VIII-A, V, I-B, IX-D-ST, and Hawk07-C-Dyn; Early-Blow-A version 2 is the local sibling deliverable source record. Sha256 prefixes of the raw TeX. Each is a source record, not a premise.

VIII-A 8e72d2469f623133; V e7daa4b681b0a7b3; I-B 4f812c5fb2753cdb; IX-D-ST 8eab87dbc82f947d; Hawk07-C-Dyn 6faa71833a8cde60; Early-Blow-A a66c981f20c896cd. The binding plan PLAN_t371u.md has sha256 dbb92121759832d78867947595fb61feae9e8b1eca67b08411617640b7f5e66b. The user findings excerpt has sha256 dfe02fdff0961e8ec0edc1a098ecaeed21532acbdad10572340ec6a721ffe9ca; the full attached results file has sha256 0087e2c81beef6ac089510071f78e439049e9141713b823adba80578f87f6285. No external paper is cited as a premise. Early-Blow-A is cited as a source record only. IX-D-ST's null-cone kernel remains documentary.

Closing ledger. Host A and Host B stay separate prescribed backgrounds. Host C is not created. O.1 stays NOT_CLOSED. XV-B is not opened. XVI-N is not discharged. Gate 0 and ST4b stay NOT_SUPPLIED. No quantum coefficient is admitted. No Einstein dynamics, derived metric, spacetime emergence, Page curve, island, vacuum energy, or quantized relational time without an external clock is claimed. A source record is not a premise. The OpenAI catalogue is not a premise. Printed numbers are conditional calculations, not measurements. No dark-matter particle species is derived.

noindentCitations identify source records only; no proof transfer.

Problem 9 stays named, not solved. No quantum coefficient is admitted.

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[2] Cheung, N. (2026). The Philosophy of Enter: Destructive Readout, Quantum Recovery, and the Refusal of Identification. *The Philosophy of Enter*, 6.

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