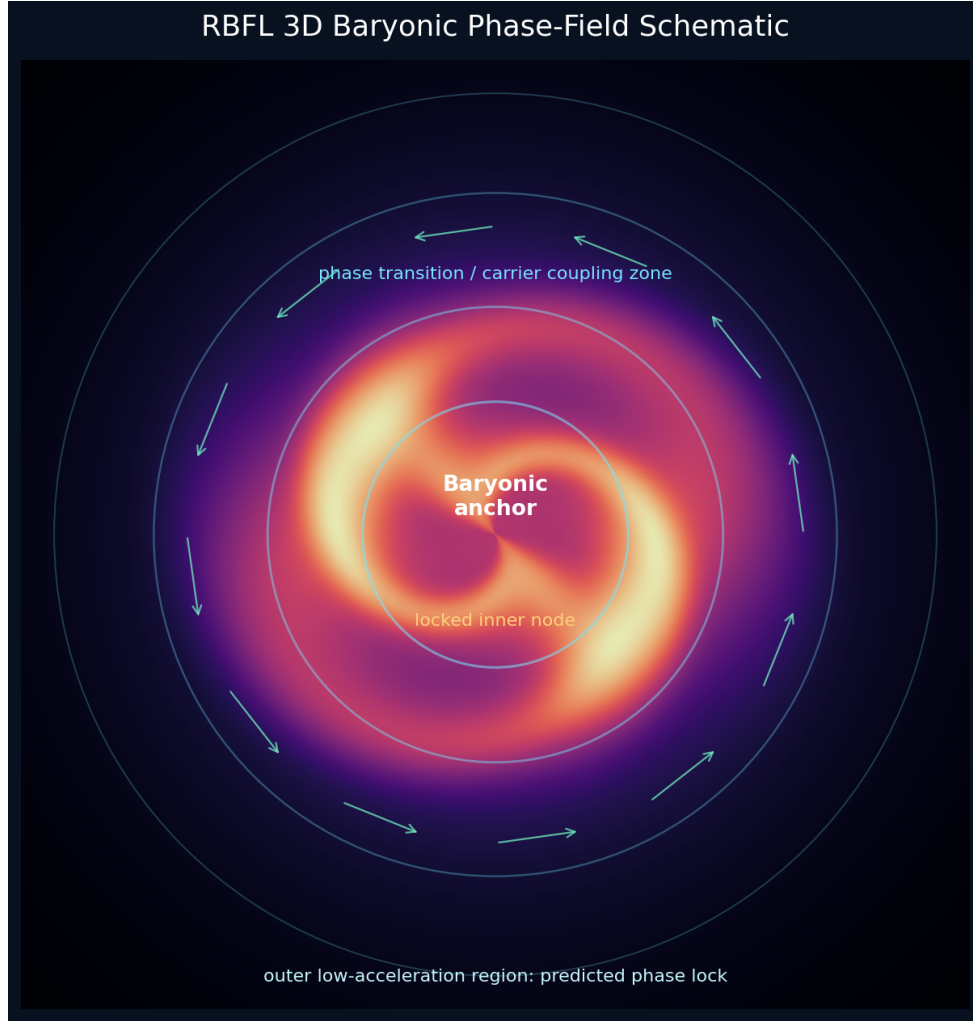


# Unified RBFL Gravity Field Law

Locked Acceleration Law, 3D Phase Operator, and a Hypothetical Gravity-Engineering Placeholder

Working technical white paper - no claims of established physics



$$\mathbf{g}_{\text{RBFL}}(\mathbf{x}, t) = \mathbf{g}_b(\mathbf{x}, t) + A_b(\mathbf{x}, t) \sqrt{a_\phi |\mathbf{g}_b(\mathbf{x}, t)|} \hat{\mathbf{g}}_b(\mathbf{x}, t)$$

Prepared for Levi Haye / RBFL-RBFT development  
June 13, 2026

**Scientific and engineering disclaimer**

This document is a speculative mathematical formulation. It does not claim that RBFL is established physics, does not claim a working gravity-engineering device, and does not provide construction instructions. The engineering section is a hypothetical response model only: it states what a phase-amplitude change would have to look like mathematically if such control were ever shown to exist. No such control is demonstrated here.

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## 1 Executive summary

This paper states an updated RBFL formulation for gravity itself while preserving the separation that has become central to the current framework:

$$\text{locked gravity law} \neq \text{phase detection and classification unit.}$$

The proposed core law is the same family as the previously used RBFL acceleration law,

$$g_{\text{RBFL}}(r) = g_b(r) + A_\phi(r) \sqrt{a_\phi g_b(r)},$$

but written in a cleaner predictive notation:

$$g_{\text{RBFL}}(r) = g_b(r) + A_b(r) \sqrt{a_\phi g_b(r)}.$$

The replacement

$$A_\phi \longrightarrow A_b$$

does not change the physical idea. It clarifies that the amplitude should be predicted or inferred from baryonic structure and phase-detection channels, rather than treated as a free residual-fitting function.

### Main claim of this draft

RBFL treats gravity as the sum of the direct baryonic acceleration field and a saturated baryonic phase-response field. The phase response is controlled by a dimensionless phase operator  $A_b(\mathbf{x}, t)$ . The law uses  $A_b$ ; the detector estimates and classifies  $A_b$ . The two roles must not be confused.

The paper also includes a hypothetical engineering placeholder. It is not a working method. It simply defines what a change in phase response,  $\Delta A_{\text{drive}}$ , would imply for the local acceleration field if a controlled phase perturbation were possible.

## 2 Status, scope, and no-claim boundary

This document is a theoretical record and hypothesis-management paper. It should be read as a proposed mathematical structure that can be tested, falsified, revised, or rejected. It is not a peer-reviewed proof and does not replace general relativity, cold dark matter, MOND, or any established theory.

The clean division is:

1. **Core law:** the acceleration equation, kept locked.
2. **Phase operator:** the 3D field-response quantity  $A_b(\mathbf{x}, t)$ .
3. **Phase Detection Unit:** the multi-channel system used to estimate, classify, and validate  $A_b$ .
4. **Hypothetical engineering placeholder:** a mathematical thought experiment for a controlled change in  $A_b$ , with no claim that such control is possible.

## 3 Baryonic gravity as the base field

RBFL begins with ordinary baryonic matter. Let the three-dimensional baryonic density field be

$$\rho_b(\mathbf{x}, t), \quad \mathbf{x} = (x, y, z).$$

The standard baryonic potential  $\Phi_b$  obeys

$$\boxed{\nabla^2 \Phi_b(\mathbf{x}, t) = 4\pi G \rho_b(\mathbf{x}, t)}$$

and the baryonic acceleration field is

$$\mathbf{g}_b(\mathbf{x}, t) = -\nabla\Phi_b(\mathbf{x}, t).$$

Here  $G$  is Newton's gravitational constant. In this draft,  $\mathbf{g}_b$  is the baseline vector field produced by the observed baryonic mass distribution.

For a disk galaxy, the radial version is obtained only after projection. If  $r$  is a projected radial coordinate,

$$g_b(r) \simeq \frac{GM_b(< r)}{r^2},$$

where  $M_b(< r)$  is the baryonic mass enclosed within radius  $r$ . This radial expression is an observational projection, not the fundamental dimensionality of RBFL.

## 4 The 3D saturated phase-field state

RBFL adds a phase-state description on top of the baryonic source field. The total local phase state is written

$$\Phi_{\text{total}}(\mathbf{x}, t) = \Phi_{\text{parent}}(\mathbf{x}, t) + \Phi_b(\mathbf{x}, t) + \Phi_{\text{rot}}(\mathbf{x}, t) + \sum_{i,j} \lambda_{ij} \Phi_i(\mathbf{x}, t) \Phi_j(\mathbf{x}, t).$$

The terms are interpreted as follows.

Symbol	Meaning
$\Phi_{\text{parent}}$	Background or parent saturated field. In RBFL language, baryons do not create the entire field from zero; they act as local anchors inside a broader phase environment.
$\Phi_b$	Baryonic compression field associated with visible matter: stars, gas, dust, bulge, disk, and compact baryonic structure.
$\Phi_{\text{rot}}$	Rotation-organized field representing angular momentum, shear, central-node rotation, disk drag, and organized flow.
$\Phi_i, \Phi_j$	Local phase components, such as disk, gas, bulge, bar, or environmental contributions.
$\lambda_{ij}$	Coupling coefficient between components. In a frozen predictive model these coefficients must be fixed or derived, not tuned per object.

The total field is bounded through a saturation map:

$$S_\phi(\mathbf{x}, t) = \tanh\left(\frac{\Phi_{\text{total}}(\mathbf{x}, t)}{\Phi_c}\right).$$

The scale  $\Phi_c$  is the critical phase scale at which the response transitions toward saturation.

## 5 Locked gravity law

The RBFL gravity field is stated as

$$\mathbf{g}_{\text{RBFL}}(\mathbf{x}, t) = \mathbf{g}_b(\mathbf{x}, t) + \mathbf{g}_\phi(\mathbf{x}, t),$$

where the phase-response acceleration is

$$\mathbf{g}_\phi(\mathbf{x}, t) = A_b(\mathbf{x}, t) \sqrt{a_\phi |\mathbf{g}_b(\mathbf{x}, t)|} \hat{\mathbf{g}}_b(\mathbf{x}, t).$$

Thus,

$$\mathbf{g}_{\text{RBFL}}(\mathbf{x}, t) = \mathbf{g}_b(\mathbf{x}, t) + A_b(\mathbf{x}, t) \sqrt{a_\phi |\mathbf{g}_b(\mathbf{x}, t)|} \hat{\mathbf{g}}_b(\mathbf{x}, t).$$

The unit direction is

$$\hat{\mathbf{g}}_b(\mathbf{x}, t) = \frac{\mathbf{g}_b(\mathbf{x}, t)}{|\mathbf{g}_b(\mathbf{x}, t)|},$$

where the vector  $\mathbf{g}_b$  already points in the local baryonic acceleration direction. In numerical applications, a small regularization  $\epsilon_g$  may be used only to avoid division by zero:

$$\hat{\mathbf{g}}_{b\epsilon} = \frac{\mathbf{g}_b}{\sqrt{|\mathbf{g}_b|^2 + \epsilon_g^2}}.$$

This regularization is not a physical new term.

#### Core interpretation

The square-root term is the saturated phase-carrier response. The dimensionless multiplier  $A_b(\mathbf{x}, t)$  says how strongly the local baryonic structure couples to that response. The acceleration scale  $a_\phi$  sets the phase-carrier scale.

### 5.1 Radial projection for rotation curves

For galaxy rotation curves the 3D field is projected into a radial observable:

$$g_{\text{RBFL}}(r) = \langle \hat{\mathbf{r}} \cdot \mathbf{g}_{\text{RBFL}}(\mathbf{x}) \rangle_{\theta, z}.$$

In the simplified radial notation this becomes

$$g_{\text{RBFL}}(r) = g_b(r) + A_b(r) \sqrt{a_\phi g_b(r)}.$$

The predicted circular speed is

$$V_{\text{pred}}(r) = \sqrt{r g_{\text{RBFL}}(r)}.$$

## 6 Outer locked law

In the outer low-acceleration region,

$$g_b(r) \ll \sqrt{a_\phi g_b(r)}.$$

If the field reaches a locked state,

$$A_b(r) \rightarrow A_{\text{lock}},$$

and outside most of the baryonic mass,

$$g_b(r) = \frac{GM_b}{r^2}.$$

Then

$$g_{\text{RBFL}}(r) \approx A_{\text{lock}} \sqrt{a_\phi \frac{GM_b}{r^2}} = \frac{A_{\text{lock}} \sqrt{GM_b a_\phi}}{r}.$$

Since  $v_f^2/r = g_{\text{RBFL}}$ ,

$$v_f^2 \approx A_{\text{lock}} \sqrt{GM_b a_\phi}.$$

Squaring gives

$$v_f^4 \approx A_{\text{lock}}^2 G M_b a_\phi.$$

Define

$$a_\Theta = A_{\text{lock}}^2 a_\phi.$$

Therefore

$$v_f^4 = G M_b a_\Theta.$$

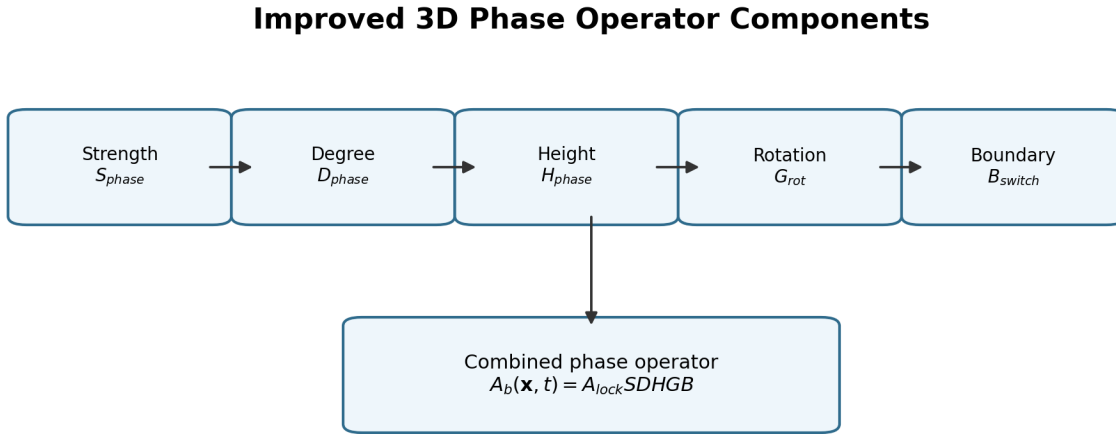
The fixed outer scaling is therefore the locked-state limit of the same law, not a separate empirical add-on.

## 7 The phase operator $A_b$

The current 3D detector writes the phase operator as

$$A_b(\mathbf{x}, t) = A_{\text{lock}} S_{\text{phase}}(\mathbf{x}, t) D_{\text{phase}}(\mathbf{x}, t) H_{\text{phase}}(\mathbf{x}, t) G_{\text{rot}}(\mathbf{x}, t) B_{\text{switch}}(\mathbf{x}, t).$$

Figure 1 shows the component logic.



Each component must be computed from declared observables or assigned only in the diagnostic layer.

Figure 1: Improved 3D phase-operator stack. This stack refines the detector’s estimate of  $A_b$ ; it does not alter the locked acceleration equation.

Component	Role
$S_{\text{phase}}$	Phase strength: how strongly the baryonic distribution can produce a saturated response. A radial first approximation is $\tanh[(\Sigma_b/\Sigma_c)^p]$ .
$D_{\text{phase}}$	Phase degree or coherence: how smooth and coherent the baryonic structure is. Gradients, fragmentation, and sharp transitions reduce coherence.
$H_{\text{phase}}$	Height or 3D envelope: how far the phase response projects above/below or beyond the disk. This is the term most limited by missing 3D data.

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$G_{\text{rot}}$	Rotational geometry or central-node drag: deformation produced by the rotating central baryonic node, inner disk, bar, bulge, and shear.
$B_{\text{switch}}$	Switching/boundary factor: flags sharp phase boundaries, event-projected regions, or regions where a smooth radial classification fails.

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## 7.1 Example radial first approximation

A practical radial first approximation is

$$S_{\text{phase}}(r) = \tanh \left[ \left( \frac{\Sigma_b(r)}{\Sigma_c} \right)^p \right],$$

$$D_{\text{phase}}(r) = \exp \left[ -\eta \left| \frac{d \ln \Sigma_b}{d \ln r} \right| \right] \left[ 1 + \left( \frac{z_d}{R_d} \right)^2 \right]^{-1/2} \left[ 1 + \exp \left( -\frac{r - R_\phi}{w_\phi} \right) \right]^{-1}.$$

The outer transition radius is defined from baryons:

$$\boxed{g_b(R_\phi) = a_\phi}$$

or, if a frozen softened threshold is declared,

$$\boxed{g_b(R_\phi) = \epsilon_\phi a_\phi, \quad \epsilon_\phi \text{ fixed before testing.}}$$

## 7.2 Rotational geometry

The rotational term should be computed from baryonic observables. A strict forward version uses

$$V_b(R) = \sqrt{R g_b(R)}, \quad \Omega_b(R) = \frac{V_b(R)}{R} = \sqrt{\frac{g_b(R)}{R}}.$$

A simple shear diagnostic is

$$\mathcal{S}_{\text{shear}}(R) = \left| \frac{d \ln \Omega_b}{d \ln R} \right|.$$

A central-node compactness diagnostic can be written schematically as

$$\mathcal{C}_{\text{node}} = \frac{M_b(< R_c)/R_c^2}{M_b/R_d^2},$$

where  $R_c$  is a declared core scale. A first rotational geometry term may then be written

$$G_{\text{rot}}(R, z) = 1 + \lambda_{\text{rot}} \mathcal{C}_{\text{node}} \mathcal{S}_{\text{shear}}(R) E_z(R, z),$$

or, in a damping interpretation,

$$G_{\text{rot,damp}}(R, z) = [1 + \lambda_{\text{rot}} \mathcal{C}_{\text{node}} \mathcal{S}_{\text{shear}}(R) E_z(R, z)]^{-1}.$$

Both are detector candidates until frozen in an external validation test.



## 8 Law versus detector

The current architecture is shown in Figure 2. The formula predicts; the detector estimates, classifies, and diagnoses.

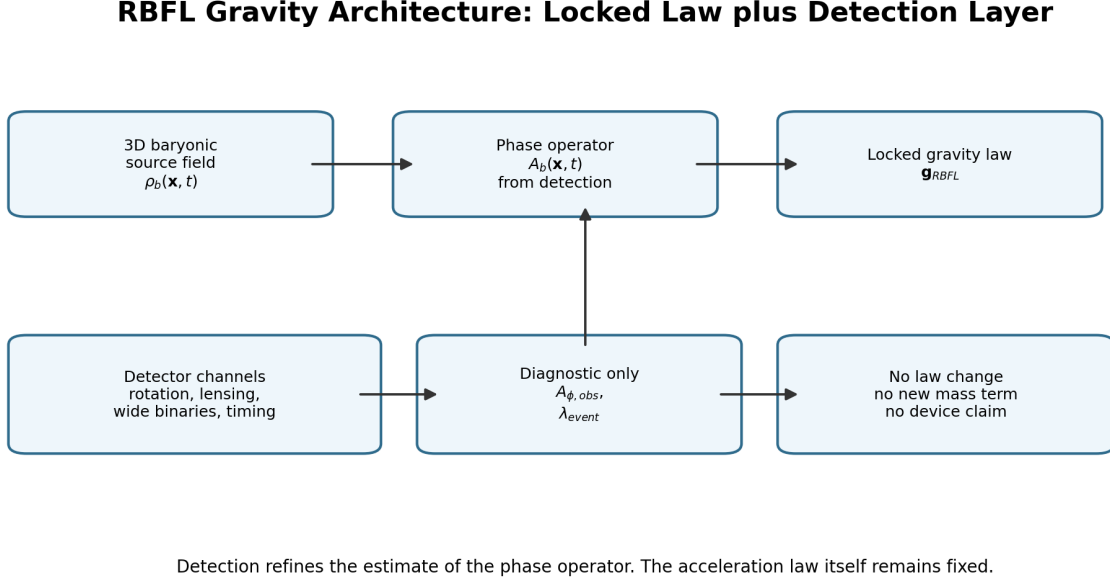


Figure 2: The locked law remains separated from the detection layer. Lensing/event channels and other diagnostics help estimate the phase operator; they are not inserted as new acceleration terms.

### 8.1 Observed phase detector

After a prediction is made, an observed residual phase amplitude may be reconstructed as

$$A_{\phi, \text{obs}}(r) = \frac{g_{\text{obs}}(r) - g_b(r)}{\sqrt{a_\phi g_b(r)}}.$$

The acceleration ratio detector is

$$\Phi(r) = \frac{g_{\text{obs}}(r)}{g_b(r)} = \frac{V_{\text{obs}}^2(r)}{V_{\text{bar}}^2(r)},$$

and the log detector is

$$y(r) = \ln \Phi(r).$$

These quantities are post-test diagnostics. They do not define the prediction in a blind test.

### 8.2 Zero-phase reference gauge

The current detector uses NGC7331 as a zero-phase reference gauge:

$$\theta_{\text{NGC7331}} = 0^\circ.$$

A generic relative phase angle may be written

$$\theta_{\text{gal}} = \text{wrap}_{180} \left[ 360^\circ \frac{\Delta \ln R_{\text{gal}} - \Delta \ln R_{\text{ref}}}{L_{\text{ref}}} \right].$$

This gauge helps classify phase families. It is a detector convention, not a new dynamical law.

### 8.3 Lensing/event amplification as detection only

Lensing arcs and Bullet-style projected amplification are used only in the Phase Detection Unit. They do not modify  $g_{\text{RBFL}}$ . Define

$$\Lambda_{\text{lens,obs}} = \frac{\text{observed projected lensing response}}{\text{baryonic projected baseline}}.$$

The previous approximate event clue  $\Lambda_{\text{event}} \sim 4$  is now treated as a detection-stage parameter or band,

$$\lambda_{\text{event}} \in [\lambda_{\text{min}}, \lambda_{\text{max}}],$$

not as a fixed constant. This is necessary because arc size, convergence, deflection, and apparent magnification are not the same observable. The lensing/event channel helps constrain  $H_{\text{phase}}$  and  $B_{\text{switch}}$ , not the core law.

## 9 Hypothetical gravity-engineering placeholder

This section is deliberately framed as a mathematical placeholder. It is not a claim of a working method, not a device design, and not evidence that gravity can be engineered.

### No engineering claim

The following equations answer only one question: if a controlled perturbation to the phase operator existed, how would it enter the RBFL acceleration expression? No known mechanism is asserted. No laboratory pathway is provided.

Let a hypothetical external process produce a small dimensionless perturbation

$$\Delta A_{\text{drive}}(\mathbf{x}, t)$$

to the local phase operator. Then

$$A_{\text{eff}}(\mathbf{x}, t) = A_b(\mathbf{x}, t) + \Delta A_{\text{drive}}(\mathbf{x}, t).$$

The hypothetical acceleration change would be

$$\Delta \mathbf{g}_{\text{hyp}}(\mathbf{x}, t) = \Delta A_{\text{drive}}(\mathbf{x}, t) \sqrt{a_\phi |\mathbf{g}_b(\mathbf{x}, t)|} \hat{\mathbf{u}}_{\text{proj}}(\mathbf{x}, t).$$

The projection direction  $\hat{\mathbf{u}}_{\text{proj}}$  cannot be arbitrary in a physical model. In the most conservative case it is aligned with the baryonic field direction,

$$\hat{\mathbf{u}}_{\text{proj}} = \hat{\mathbf{g}}_b.$$

If a future theory allowed another projection channel, that channel would have to be specified by a validated 3D phase model.

### 9.1 Required phase-amplitude shift for a target acceleration

If a target incremental acceleration magnitude  $\Delta g_{\text{target}}$  is specified, the required phase-amplitude shift would be

$$\Delta A_{\text{req}}(\mathbf{x}) = \frac{|\Delta g_{\text{target}}(\mathbf{x})|}{\sqrt{a_\phi |\mathbf{g}_b(\mathbf{x})|}}.$$

This equation is useful as a dimensional sanity check. It does not say that such  $\Delta A$  can be produced.

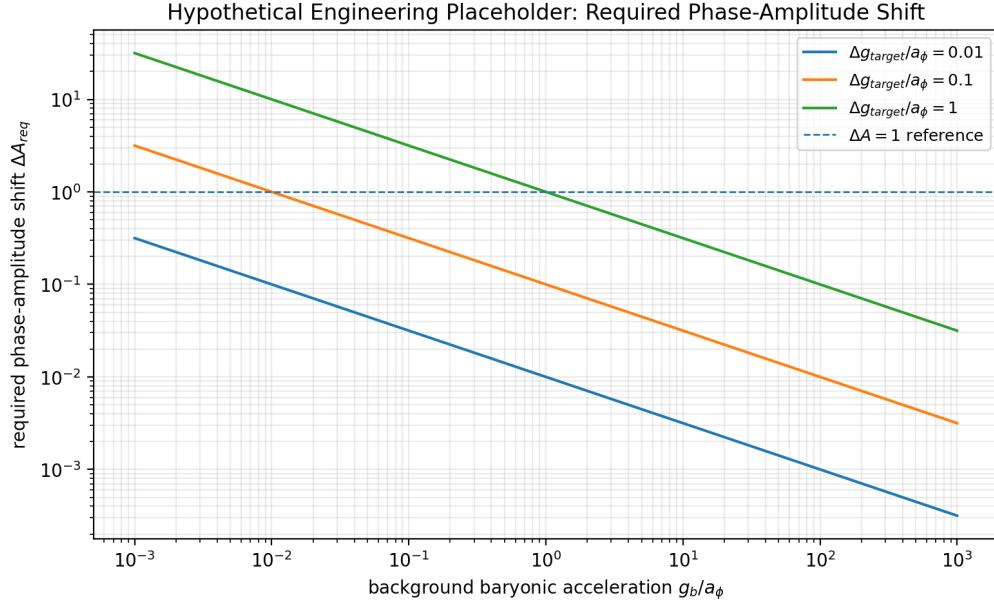


Figure 3: Hypothetical required phase-amplitude shift as a function of background baryonic acceleration. This is a mathematical scaling diagram, not an engineering result.

## 9.2 Hypothetical drive decomposition

A generic placeholder for a drive-induced perturbation is

$$\Delta A_{\text{drive}} = \chi_\phi \mathcal{I}_{\text{drive}} \mathcal{S}_{\text{mat}} \mathcal{C}_{\text{coh}} \mathcal{P}_{\text{geom}} \mathcal{E}_{\text{bound}}.$$

The factors are purely formal:

Symbol	Meaning in the hypothetical placeholder
$\chi_\phi$	Unknown phase-coupling susceptibility. No measured value is claimed.
$\mathcal{I}_{\text{drive}}$	Dimensionless normalized drive intensity or perturbation amplitude.
$\mathcal{S}_{\text{mat}}$	No mechanism is specified.
$\mathcal{C}_{\text{coh}}$	Material/source saturation compatibility, if such a concept exists.
$\mathcal{P}_{\text{geom}}$	Coherence factor describing whether the perturbation can stay phase-organized.
$\mathcal{E}_{\text{bound}}$	Projection geometry into the acceleration channel.
	Boundary/envelope factor that prevents unbounded response.

For a perturbative mathematical regime one would require

$$|\Delta A_{\text{drive}}| \ll A_{\text{lock}}$$

so that the locked galaxy-scale law is not being replaced by a different theory.

## 9.3 Engineering interpretation

The hypothetical engineering statement is therefore:

$$\text{To change gravity in RBFL, one would need to change the local phase operator } A_b.$$

The placeholder equation says what such a change would imply mathematically. It does not state that the change is physically possible.

## 10 Internal benchmark context

The following values summarize the current internal detector context. They are not external validation. They show why the detector, not the law, is the present focus.

Table 4: Current internal benchmark summary.

Mode	Holdout phase-state match	Holdout velocity pass
Prior improved 3D detector	75%	70%
Adjustable event-band detector	95%	70%

The interpretation is that the event/lensing band sharpens phase detection but does not change the locked velocity law. Velocity does not improve unless the predictive  $A_b$  recipe improves.

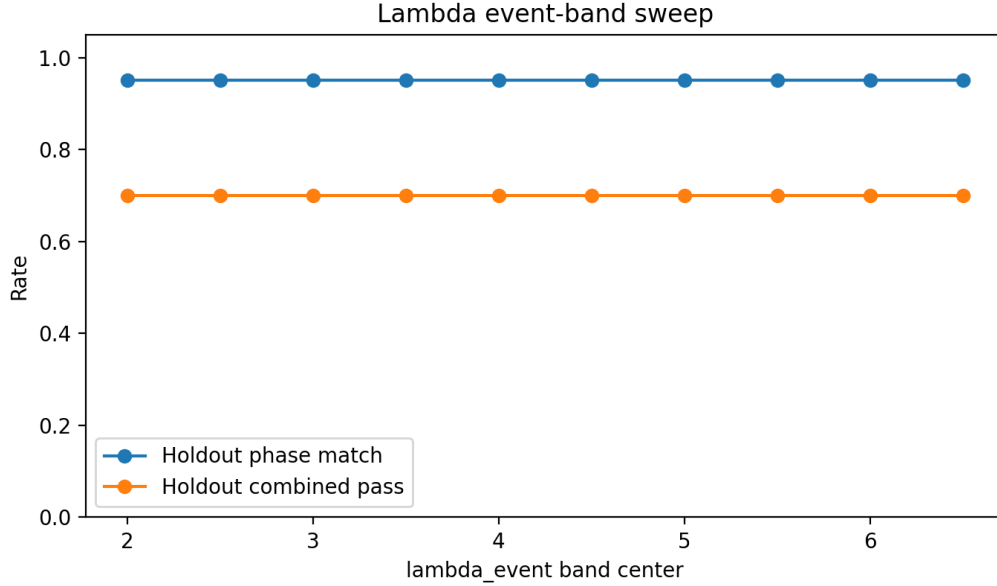


Figure 4: Internal detection-stage sweep over the event-band parameter. This parameter is used for phase classification only; it is not inserted into the acceleration law.

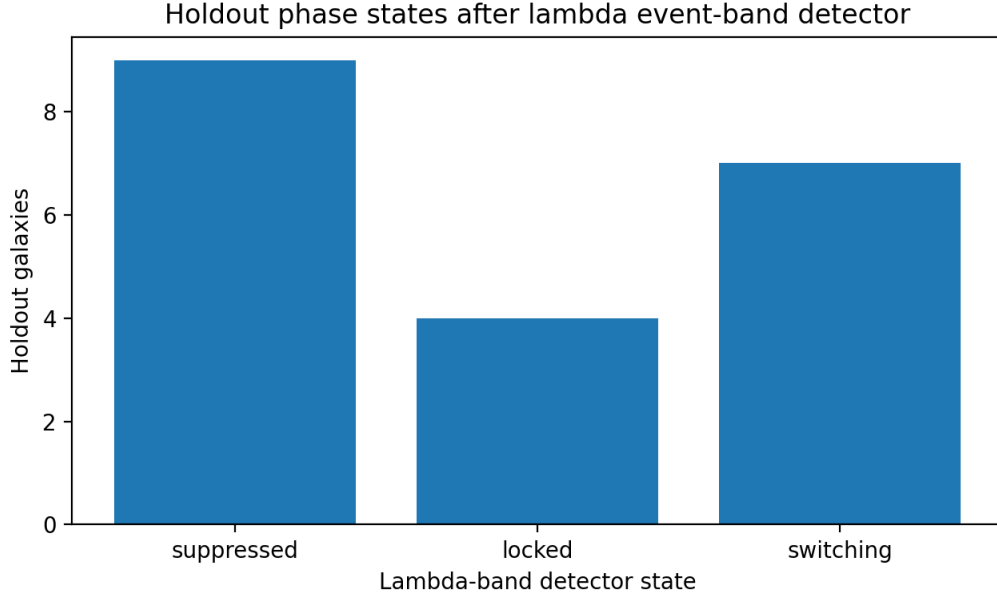


Figure 5: Holdout classification plot from the adjustable event-band detector. The improved classification is a detector result, not a new force-law result.

## 11 Reproducible application recipe

A researcher attempting to reproduce the current RBFL gravity calculation should separate prediction and detection.

### 11.1 Prediction-side calculation

1. Choose a baryonic mass prescription and compute  $\rho_b(\mathbf{x})$ ,  $\Phi_b(\mathbf{x})$ , and  $\mathbf{g}_b(\mathbf{x})$ .
2. Compute or approximate the phase-operator components  $S, D, H, G, B$  from declared baryonic observables.
3. Form

$$A_b(\mathbf{x}) = A_{\text{lock}} S_{\text{phase}} D_{\text{phase}} H_{\text{phase}} G_{\text{rot}} B_{\text{switch}}.$$

4. Compute

$$\mathbf{g}_{\text{RBFL}}(\mathbf{x}) = \mathbf{g}_b(\mathbf{x}) + A_b(\mathbf{x}) \sqrt{a_\phi |\mathbf{g}_b(\mathbf{x})|} \hat{\mathbf{g}}_b(\mathbf{x}).$$

5. Project to the observable of interest, such as a rotation curve:

$$V_{\text{pred}}(r) = \sqrt{r g_{\text{RBFL}}(r)}.$$

### 11.2 Detection-side calculation

Only after prediction is scored, calculate residual and phase-detection diagnostics:

$$A_{\phi, \text{obs}}(r) = \frac{g_{\text{obs}}(r) - g_b(r)}{\sqrt{a_\phi g_b(r)}}.$$

Then compare  $A_b$  and  $A_{\phi, \text{obs}}$ , use the NGC7331 reference gauge, and classify suppressed, locked, amplified, switching, or event-projected states. Lensing arcs, wide binaries, and timing/spacing clues may be used as detection channels only if their rules are declared.

## 12 Full symbol dictionary

Symbol	Definition
$\rho_b(\mathbf{x}, t)$	Three-dimensional baryonic density.
$\Phi_b$	Baryonic potential satisfying $\nabla^2 \Phi_b = 4\pi G \rho_b$ .
$\mathbf{g}_b$	Baryonic acceleration field, $-\nabla \Phi_b$ .
$\mathbf{g}_{\text{RBFL}}$	Total RBFL acceleration field.
$A_b$	Baryon-derived phase operator used by the law.
$A_{\phi, \text{obs}}$	Observed residual-derived phase amplitude used only after prediction.
$a_\phi$	Phase-carrier acceleration scale.
$A_{\text{lock}}$	Locked outer-regime amplitude.
$a_\Theta$	Locked outer acceleration scale, $A_{\text{lock}}^2 a_\phi$ .
$S_{\text{phase}}$	Phase strength.
$D_{\text{phase}}$	Phase coherence or degree.
$H_{\text{phase}}$	3D height/envelope factor.
$G_{\text{rot}}$	Rotational geometry/central-node drag factor.
$B_{\text{switch}}$	Boundary or switching factor.
$\lambda_{\text{event}}$	Detection-stage event/lensing band parameter. Not a law parameter.
$\Delta A_{\text{drive}}$	Hypothetical engineered perturbation to the phase operator. No physical realization is claimed.
$\Delta \mathbf{g}_{\text{hyp}}$	Hypothetical acceleration change implied by $\Delta A_{\text{drive}}$ .

## 13 Final statements

The updated RBFL gravity formulation can be summarized as:

$$\mathbf{g}_{\text{RBFL}} = \mathbf{g}_b + A_b \sqrt{a_\phi |\mathbf{g}_b|} \hat{\mathbf{g}}_b.$$

This is the locked core law. The phase operator  $A_b$  is the object to be predicted, inferred, and refined.

The detection-stage lesson is:

Better gravity predictions require better phase detection, especially better 3D data.

The present limitation is not only mathematical. The detector lacks full 3D baryonic density, full lensing convergence maps, complete wide-binary tracer fields, and complete timing/spacing datasets. Current phase shape is therefore estimated from projected observables.

The hypothetical engineering lesson is:

$$\Delta \mathbf{g}_{\text{hyp}} = \Delta A_{\text{drive}} \sqrt{a_\phi |\mathbf{g}_b|} \hat{\mathbf{u}}_{\text{proj}}.$$

This is only a placeholder. No claim is made that  $\Delta A_{\text{drive}}$  can be produced, controlled, or used in practice.

### Closing no-claim statement

This white paper is a speculative RBFL theory record. It defines a possible gravity-field equation and a hypothetical response formula. It does not claim experimental verification, does not claim a gravity-engineering method, and does not provide instructions for creating, cancelling, shielding, or manipulating gravity.