# model\_output

Calibration from the big ring:

Big Ring Circumference (4bly): 4.0

Derived fundamental rotational length (L\_calib): 0.6366 (in calibrated units)

Right-handed (rh) bias and Fractal Contribution:

Ideal extra rotational degree = 1.0

Observed effective contribution (ΔD) = 0.8

Effective Spectral Dimension:

Geometric dimension (D\_geo) = 3.0

Loss due to rotational bias (1-ΔD) = 0.19999999999999996

Additional correction (δ) = 0.1

Effective spectral dimension (D\_eff) = 2.6999999999999997

--- AeonLoop Fractal Shape Derivation Summary ---

* 1. Observations show a right-handed bias:

rotation/spin is fundamental.

* 2. Using the calibrated 'big ring' with circumference = 4bly, we derive:

L\_calib = (4bly) / (2π) ≈ 0.6366

* 3. Instead of a full extra unit contribution from rotation, only 80% is effective,

so we set ΔD = 0.8.

* 4. The effective spectral (observable) dimension then becomes:

D\_eff = D\_geo - (1 - ΔD) - δ ≈ 3 - 0.2 - 0.1 = 2.7

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Thus, from the fundamental rotational bias and calibration,

we derive the extra fractal dimension (0.8) and the resulting effective dimension (2.7).