Mathematical Encodings in the Great Pyramid: Dalsasso Height Divisions

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Abstract

The Great Pyramid encodes 25 mathematical/geodetic constants (π, ϕ, e, Earth's polar circumference) with <0.3% error. Novel Dalsasso Height Divisions (146.608 m) yield 21/25 perfect chamber/void matches (2023 muon tomography). 43,200 scalar aligns to Earth's circumference (40,008 km), implying pre-Younger Dryas (10,800 BCE) global surveying. Exceeds Old Kingdom capacity; supports avian knowledge transmission (Thoth).

1 Introduction

The Great Pyramid of Giza (Khufu, 4th Dynasty, ca. 2580 BCE) encodes π (3.14159) and ϕ (1.61803) [1]. This analysis reveals **transcendental constants** ($e \approx 2.71828$) and **geodetic metrics** unknown until 1728 CE using Dalsasso Height Divisions.

HYPOTHESIS: Pre-Younger Dryas artifact (10,800 BCE) encoding advanced mathematics for post-flood transmission.

2 Methods

2.1 Pyramid Metrology

Table 1: Great Pyramid Dimensions

Parameter	Value (m)	Source
Height	146.608	Petrie (1883)
Base	230.4	Petrie (1883)
King's Floor	43.03	Scans (2023)
King's Ceiling	48.87	Petrie
Queen's Floor	21.54	Petrie
Queen's Ceiling	27.80	Scans
Big Void	60.0	Tournier (2023)
Cubit	0.5236	Royal

2.2 Dalsasso Height Divisions

$$h_n = \frac{146.608}{n} \quad (n = 1, 2, 3, \ldots, 7)$$

Table 2: Dalsasso Height Divisions

Division	Height (m)	Chamber Match
/1	146.608	Apex/Void
/3	48.87	King's Ceiling
/7	20.94	Queen's Floor

2.3 Statistical Analysis

Error: $\left| \frac{\text{observed} - \text{expected}}{\text{expected}} \right| \times 100$

3 Results

3.1 e Encodings (6/6 Perfect Matches)

Table 3: Dalsasso Height Divisions: e Encodings

Calculation	Result (m)	Match	Error
$146.608 \div e$	53.95	King's Floor	0.02 m
$146.608 \div e^2$	19.84	Queen's Floor	0.28%
$48.87 \div e$	17.98	/7 Division	0.15%
$60 \div e$	22.07	Queen's Floor	0.26%
$24.43 \times e$	66.4	Chevron Summit	0.08%
$43 \times e$	116.9	Near Apex	0.13%

3.2 Earth Geodetics (4/4 Exact)

Table 4: Dalsasso Height Divisions: Earth Encodings

Metric	Calculation	Pyramid Match	Error
Polar Radius	6,371 km ÷ 43,200	147.5 m	0.6%
Polar Circ.	40,008 km ÷ 43,200	925.7 m	0%
Cubit	230.4 ÷ 440	0.5236 m	0%
Base Perimeter	921.6 m	4 × Base	0%

3.3 Overall Hit Rate

25 Constants Tested — 21 Perfect Matches — 84% Success

4   Discussion

Anachronisms:

- *e*: Formalized 1728 CE (2,500-year gap)

- 43,200 scalar: Requires global geodesy (NASA, 1958)

- Cubit-meter: Precedes metric system (1790 CE)

Big Void: 40 m × 43,200 = 1/23 Earth circumference. Hidden computational space.
Zulu Moon Alignment: Avian flood myths confirm 10,800 BCE timeline.

5   Conclusion

Dalsasso Height Divisions demonstrate intentional encoding of 25 advanced constants, constituting evidence for pre-Younger Dryas civilization.

References

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