

Apeiron Publication Update - Changes from v1.2 to v1.3

Area	v1.2 / old state	v1.3 / new state
Internal microstructure	Not integrated into controlled preprint	Controlled EFT vacuum and normalized σ , θ , χ spectrum integrated
χ stability structure	Not integrated	Neighboring tachyonic phases explicitly delimited
Canonical X^2 coefficient	Old intermediate 2.9131×10^{11} may exist in research intermediates	Binding $3.91305380277 \times 10^{11} M_{\text{Pl}}^{-4}$
Tree unitarity	Old dependent ratio 1.38688 withdrawn	$\Lambda_{\text{unit}}/\Lambda = 1.28824506$
$O(p^6)$ finite term	Not integrated	$C_6^{(x)} = -21.0925 M_{\text{Pl}}^{-6}$
One-loop renormalization	Not integrated	$\beta_{C_6} = -2.85893108646 \times 10^{12} M_{\text{Pl}}^{-6}$
Minimal UV class	Open	Conditional preference for heavy linearly coupled Gaussian scalar mediator
UV parameter count	Not bounded in publication	One remaining parameter M_S
M_S range	Not stated	$1 < M_S/\Lambda \lesssim 1.28824506$
UV status	Open	APEIRON UV MATCHING BOUNDARY: BOUNDED
Nonlocal response	Open	Still open; explicitly required for independent pole/mediator determination
Fundamental microtheory	Not claimed	Still not claimed
Frozen v7.13 line	Frozen	Unchanged