

Ten Numbers, Each With Its Grade and Its Falsifier

The paper a reader can carry away. Ten quantities, each with its value, its honesty grade, and the observation that would retire it. Every row carries the grade and the falsifier in the same breath, because that pairing — a claim and the measurement that would kill it, printed together — is the discipline the whole twenty-two-paper series is built on. D* marks a value the ledger derives subject to the measure lemma; the four entries that are not D* say what they are instead. Two of the ten are retired by the same standard-siren result: near 73 this paper is wrong, publicly and quickly, and by its own printed rule. Nothing here is negotiable once its datum arrives, and most of the data arrive within the decade. In full: Table 23, p. 178.

Quantity	Value	Grade	Falsified by
Background rate $H_0^{(0)}$	66.8 ± 0.2	Derived (cond.)	a converged siren at 73
Matter fraction Ω_m	$1/\pi$	D*	Ω_m settling away from $1/\pi$
Dark energy Ω_Λ	$1 - 1/\pi$	D*	a measured $\Omega_\Lambda \neq 1 - 1/\pi$
Baryons Ω_b	$1/2\pi^2$	D*	$\Omega_b/\Omega_m \neq 1/2\pi$
Equation of state w	-1 exactly	Derived-cond.	a converged $w \neq -1$ at 3σ
Decoupling z_{dec}	1091.5	D*	a measured z_{dec} off the atomic chain by $> 1.4\%$
de Sitter floor H_∞	55.2	D*	follows from Ω_Λ
Present age t_0	13.9 Gyr	D*	inconsistent stellar/cosmic ages
Ladder excess ϵ_{syst}	$\approx 10\%$	Named, not derived	a ladder-free probe at 73.5
Siren prediction H_0^{GW}	$\rightarrow 67$	prediction	a converged siren at 73