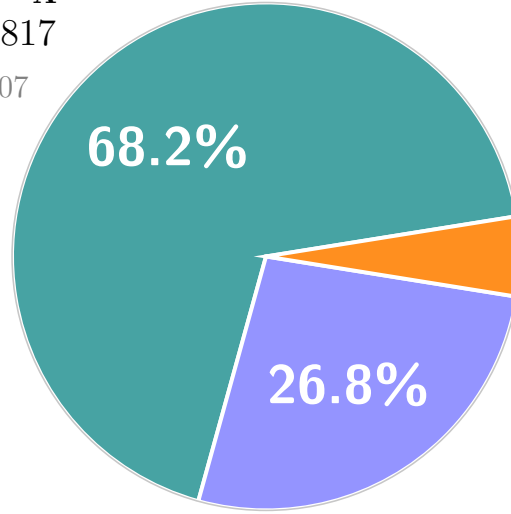


Pi-locked Chart of Ω

Dark energy Ω_Λ

$$= 1 - 1/\pi = 0.6817$$

Planck 0.685 ± 0.007



Baryons Ω_b

$$= 1/(2\pi^2) = 0.0507$$

Planck 0.0493 ± 0.0006

Dark matter Ω_{dm}

$$= 1/\pi - 1/(2\pi^2) = 0.2676$$

Planck 0.2657 ± 0.0070

$$\Omega_m = \Omega_{\text{dm}} + \Omega_b = 1/\pi = 0.3183$$

one circle, three powers of π — the present-epoch snapshot

Figure 1: Pi-locked Chart of Ω — the composition of the universe in one circle. Every slice of the present-epoch cosmic energy budget is a single closed-form fraction of π , the three forced together as one coupled set: dark energy $\Omega_\Lambda = 1 - 1/\pi$, dark matter $\Omega_{\text{dm}} = 1/\pi - 1/(2\pi^2)$, and baryons $\Omega_b = 1/(2\pi^2)$, with the two matter slices summing to $\Omega_m = 1/\pi$. Written just outside each slice is the prediction and, beneath it, the Planck 2018 ([Planck Collaboration, 2018](#)) measured value; the two agree to better than 3%. The coupled π -form is the headline structural result, derived (conditional on Conjecture VIII) as Theorem 74.1 in Part X; the matter-composition ratio $1/(2\pi)$ and the vacuum scale hold at every epoch, while these absolute present-day fractions are the one snapshot calibrated to the sky (§32.11).