A MEMORIAL IN SIXTY-FOUR SQUARES

The Canon Board

The most consequential formulas of mathematics and physics, placed as a chessboard.

	a	b	c	d	e	f	g	h
8	$2^{\aleph_0} > \aleph_0$	$T \nvdash \mathrm{Con}(T)$	$\delta S = 0$	$\mathbb{Z} = \left(S^1\right) \pi_1$	$G_{\mu\nu} + \Lambda g_{\mu\nu} = \kappa T_{\mu\nu}$	$\nabla \times B = \mu_0 J + \mu_0 \epsilon_0 \partial_t E$	$V = -\mu^2 \lvert\phi\rvert^2 + \lambda \lvert\phi\rvert^4$	$H^2 = 8\pi G \rho / 3 + \Lambda c^2 / 3$
7	$\pi(x) \sim x / \ln x$	$Av = \lambda v$	$\Box u = 0$	$ds^2 = g_{\mu\nu}\, dx^\mu dx^\nu$	$\partial_\mu j^\mu = 0 \Leftarrow$ symmetry	$\nabla \times E = -\partial_t B$	$E = mc^2$	$S = A / (4\ell_P^2)$
6	$e^{i\pi} + 1 = 0$	$\mathrm{Gal}(K/F)$	$\oint f(z)\, dz = 2\pi i \sum \mathrm{Res}$	$\int K\, dA = 2\pi\chi$	$\frac{d}{dt}\frac{\partial L}{\partial \dot{q}} = \frac{\partial L}{\partial q}$	$\nabla \cdot B = 0$	$[x, p] = i\hbar$	$S_{\mathrm{CHSH}} \leq 2$
5	$\forall N\, \exists p > N,\ p$ prime	$e^{i\theta} = \cos\theta + i\sin\theta$	$\sum_{n=1}^{\infty} n^{-2} = \pi^2/6$	$V - E + F = 2$	$F = \frac{dp}{dt}$	$\nabla \cdot E = \rho / \epsilon_0$	$0 = \phi(i\gamma^\mu \partial_\mu - m)\psi$	$H = -\sum p_i \log p_i$
4	$n = \prod p_i^{e_i}$	$0 = \zeta(s) \Longrightarrow \exists z \in \mathbb{C},\ \mathrm{Re}\, p \geq 1$	$\hat{f}(\xi) = \int f\, e^{-2\pi i x \xi}\, dx$	$ds^2 = dx^2 + dy^2 + dz^2$	$\frac{T^2}{a^3} = \frac{4\pi^2}{GM}$	$F = k_e \frac{q_1 q_2}{r^2}$	$i\hbar\partial_t \Psi = \hat{H}\Psi$	$c = 1/\sqrt{\mu_0 \epsilon_0}$
3	$\sqrt{2} \notin \mathbb{Q}$	$(x+y)^n = \sum_{k=0}^{n} \binom{n}{k} x^{n-k} y^k$	$e = \sum_{n=0}^{\infty} \frac{1}{n!}$	$V = \frac{4}{3}\pi r^3$	$F = G\frac{m_1 m_2}{r^2}$	$S = k \ln W$	$\Delta x\, \Delta p \geq \hbar/2$	$\gamma = (1 - v^2/c^2)^{-1/2}$
2	$a^2 + b^2 = c^2$	$a \equiv b \pmod{n}$	$\int_a^b f'(x)\, dx = f(b) - f(a)$	$A = \pi r^2$	$F = ma$	$dU = \delta Q - \delta W$	$\lambda = h/p$	$ds^2 = -c^2 dt^2 + dx^2 + dy^2 + dz^2$
1	$1 + 1 = 2$	0	$f'(x) = \frac{dy}{dx}$	$C = 2\pi r$	$s = \frac{1}{2} g t^2$	$PV = nRT$	$E = h\nu$	$v = H_0 d$

Files are domains. Ranks run from origin (1) to horizon (8).
Light and dark keep the chess field; the formulas keep the history.

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