

I

$$V_K(t)=(t+t^3-t^4)(\sqrt{t}+\sqrt{t}^{-1})$$

$$V_K(e^{2\pi i/(k+2)})=\tfrac{1}{Z}\int_{\mathcal{A}}\left(\mathrm{Tr}\,\mathrm{P}\exp\oint_K A\right)e^{(ik/4\pi)CS(A)}\mathcal{D}A$$

II

$$C_{ijk}\eta^{kl}C_{lmn}=C_{mjk}\eta^{kl}C_{lin}$$

III

$$R_{12}R_{23}R_{12}=R_{23}R_{12}R_{23}$$

IV

$$Equations\ for\ Lorenz\ attractor:$$

$$\frac{dx}{dt}=\sigma(y-x)$$

$$\frac{dy}{dt}=x(\rho-z)-y$$

$$\frac{dz}{dt}=xy-\beta z$$

V

$$\partial_tv_i+v_j\partial_jv_i$$

$$=-\partial_ip+\nu\partial_j\partial_jv_i$$

VI

$$\int_{C_1}\mathbf{A}\cdot\mathbf{d}\ell-\int_{C_2}\mathbf{A}\cdot\mathbf{d}\ell=\tfrac{1}{2\pi}\Phi$$

VII

$$Supergravity:$$

$$\mathcal{L}=R-\bar{\psi}_{\mu}\gamma^{\mu\rho\sigma}D_{\rho}\psi_{\sigma}$$

VIII

$$r_S=2Gm/c^2$$

IX

$$\chi=V-E+F$$

$$2\pi\chi=\int_M K\;dA$$

X. *Pythagoras:*

$$c^2 = a^2 + b^2$$

XI. *Babylonian Tablet*

XII. *Golden mean = partial fraction expansion:*

$$\lim_{n \rightarrow \infty} \frac{F_{n+1}}{F_n} = 1 + \frac{1}{1 + \dots}$$

XIII. *Archimedes:*

$$v = \frac{2}{3}V$$

$$a = \frac{2}{3}A$$