

ERRATA

of

Quantum Gravity and Cosmology Based on Conformal Field Theory

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by Ken-ji Hamada

- p.35, in the second equation: $\cdots I_{\mu_1\nu_1}(x_{1,2}) \mapsto \cdots I_{\mu_1\nu_1}(x_{12})$
- p.47, the last of the first paragraph: $D/2 - 1 \leq \Delta \leq \mapsto 2(D/2 - 1) \leq \Delta \leq$
- p.59, in the sentence soon below the first equation: $g_{\mu\nu} = (-1, 1) \mapsto g_{\mu\nu} = \eta_{\mu\nu} = (-1, 1)$
- p.148, in the penultimate group of equations: $V_\beta \mapsto \mathcal{V}_\beta$
- p.220, two expressions in the middle sentence: $\bar{\gamma}_{\text{EH}} = \mu d(\log Z_{\text{EH}})d\mu, \bar{\gamma}_\Lambda = \mu d(\log Z_\Lambda)d\mu \mapsto \bar{\gamma}_{\text{EH}} = \mu d(\log Z_{\text{EH}})/d\mu, \bar{\gamma}_\Lambda = \mu d(\log Z_\Lambda)/d\mu$
- p.228, in the last paragraph: $V^{\text{loop}} = \bar{A}[7 - 2 \log 4\pi] \mapsto V^{\text{loop}} = \bar{A}[4\sigma + 7 - 2 \log 4\pi]$
- p.245, in eq.(12-8): $-3H_D^2 H^2 + \rho \mapsto -3H_D^2 H^2 + \frac{8\pi^2}{b_c} \rho$
- p.264 in the first equation: $D^\alpha = \mathcal{D}^\alpha + \cdots \mapsto \mathcal{D}^\alpha = D^\alpha + \cdots$
- p.291a, in the penultimate equation: $= 2\Delta_{ij,kl} \mapsto = 8\Delta_{ij,kl}$
- p.291b, in the sentence below the penultimate equation: $h^{\text{TT}} = tH/\sqrt{2} \mapsto h^{\text{TT}} = tH/\sqrt{8}$
- p.291c, in the last equation: $-\frac{t_i^2}{32\pi^2} \mapsto -\frac{t_i^2}{128\pi^2}$
- p.292, in the first equation: $\frac{t_i^2}{16\pi^2} \mapsto \frac{t_i^2}{64\pi^2}$
- p.294, in the seventh line from the top: $t_i/4\pi \mapsto t_i/8\pi$
- p.303, in the second formula group from the top: $\sqrt{g} \mapsto \sqrt{-g}$
- p.309, in the first equation: $\nabla_\mu V_a = \partial_\mu + \omega_{\mu a}^b V_b \mapsto \nabla_\mu V_a = \partial_\mu V_a + \omega_{\mu a}^b V_b$
- p.310, in the middle sentence: $\nabla_\mu \gamma^\nu = \gamma^\alpha \nabla_\mu e_\alpha^\nu = 0 \mapsto \nabla_\mu \gamma^\nu = \gamma^\nu \nabla_\mu$
- p.327, in the the third equation: $\sum_M Y_{JM}(\hat{\mathbf{x}})Y_{JM}(\hat{\mathbf{x}}') \mapsto \sum_M Y_{JM}(\hat{\mathbf{x}})Y_{JM}^*(\hat{\mathbf{x}}')$
- p.343, addendum to the definition of Wigner D function: $\langle J, m | e^{-i\alpha J_3} e^{-i\beta J_2} e^{-i\gamma J_3} | J', m' \rangle = \delta_{JJ'} D_{m, m'}^J(\alpha, \beta, \gamma)$, where $[J_a, J_b] = i\epsilon_{abc} J_c$
- p.367, in the last term of the third equation: $\partial_\eta h_{ij}^{\text{TT}} n^i n^j \mapsto \frac{1}{2} \partial_\eta h_{ij}^{\text{TT}} n^i n^j$
- p.368, in Eq.(E-4): $\partial_\eta h_{ij}^{\text{TT}}(\eta, \mathbf{x}(\eta)) n^i n^j \mapsto \frac{1}{2} \partial_\eta h_{ij}^{\text{TT}}(\eta, \mathbf{x}(\eta)) n^i n^j$
- p.373, in Eq.(E-12): $\langle \partial_\eta h_{ij}^{\text{TT}} \cdots \rangle \mapsto \frac{1}{4} \langle \partial_\eta h_{ij}^{\text{TT}} \cdots \rangle$
- p.374a, in Eq.(E-13): $\langle h_{ij}^{\text{TT}} \cdots \rangle \mapsto \frac{1}{4} \langle h_{ij}^{\text{TT}} \cdots \rangle$
- p.374b, three expressions in the footnote 3: $= 4 \langle h^{\text{TT}}(\eta, \mathbf{k}) \cdots \rangle, h_{11}^{\text{TT}} = -h_{22}^{\text{TT}} = h_+, h_{12}^{\text{TT}} = h_{21}^{\text{TT}} = h_\times \mapsto = 16 \langle h^{\text{TT}}(\eta, \mathbf{k}) \cdots \rangle, h_{11}^{\text{TT}} = -h_{22}^{\text{TT}} = 2h_+, h_{12}^{\text{TT}} = h_{21}^{\text{TT}} = 2h_\times$

[Note: errors of p.291abc, p.292, p.294, p.367, p.368, p.373, p.374ab are from the normalization error in p.367]

Figure E-2 in p.373, replaced with more clear one:

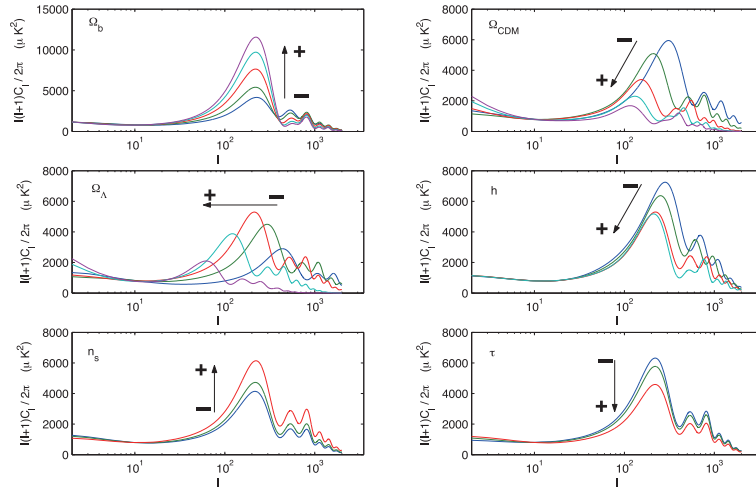


Figure E-3 in p.377, replaced with more clear one:

