ERRATA

of

Quantum Gravity and Cosmology Based on Conformal Field Theory (Cambridge Scholars Publishing, 2018) by Ken-ji Hamada

- p.16, in the sentence below the third equation: $\partial_{\eta}Q_{\zeta} = \mapsto \partial Q_{\zeta}/\partial x^{0} =$
- p.35, in the second equation: $\cdots I_{\mu_l\nu_l}(x_{1,2}) \mapsto \cdots I_{\mu_l\nu_l}(x_{12})$
- p.47, the last of the first paragraph: $D/2 1 \le \Delta \le \mapsto 2(D/2 1) \le \Delta \le$
- p.59, in the sentence below the first equation: $g_{\mu\nu}=(-1,1)\mapsto g_{\mu\nu}=\eta_{\mu\nu}=(-1,1)$
- p.90, in the sentence below the second equation: -1/15 \mapsto -1/30 and 199/30 \mapsto 199/60
- p.148, in the penultimate group of equations: $V_{\beta} \mapsto \mathcal{V}_{\beta}$
- \bullet p.196, in the first sentence of the last paragraph: (see the second section of \mapsto (see the third section of
- p.218, in the ninth line from the top: effective effect \mapsto effective action
- p.220, two expressions in the middle sentence: $\bar{\gamma}_{\rm EH} = \mu d(\log Z_{\rm EH}) d\mu$, $\bar{\gamma}_{\Lambda} = \mu d(\log Z_{\Lambda}) d\mu \mapsto \bar{\gamma}_{\rm EH} = \mu d(\log Z_{\rm EH}) / d\mu$, $\bar{\gamma}_{\Lambda} = \mu d(\log Z_{\Lambda}) / d\mu$
- \bullet p.222, in the first sentence of the second paragraph: and obtain \mapsto and obtain from Fig. 10-19 as
- p.223, in the last equation: $|_{o(t^0)} \mapsto |_{o(t^2)}$
- p.228, in the last paragraph: $V^{\text{loop}} = \bar{A}[7-2\log 4\pi \mapsto V^{\text{loop}}] = \bar{A}[4\sigma + 7 2\log 4\pi]$
- \bullet p.229, in the first sentence: by the traceless tensor field, \mapsto by the traceless tensor field in the Landau gauge
- p.245, in eq.(12-8): $-3H_{\rm D}^2H^2 + \rho \mapsto -3H_{\rm D}^2H^2 + \frac{8\pi^2}{b_c}\rho$
- 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: $h^{\rm TT}=tH/\sqrt{2}\mapsto h^{\rm TT}=tH/\sqrt{8}$
- 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: $\nabla_{\mu}\gamma^{\nu} = \gamma^{a}\nabla_{\mu}e^{\nu}_{a} = 0 \mapsto \nabla_{\mu}\gamma^{\nu} = \gamma^{\nu}\nabla_{\mu}$
- p.327, in 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: $\langle J, m | e^{-i\alpha J_3} e^{-i\beta J_2} e^{-i\gamma J_3} | J', m' \rangle = \delta_{JJ'} D^J_{m,m'}(\alpha,\beta,\gamma)$, where $[J_a,J_b] = i\epsilon_{abc}J_c$
- p.359, in the equation of the last paragraph: $e^{-\text{tr}(\frac{1}{2}M^2+gM^4)} \mapsto e^{-\text{tr}(\frac{1}{2}M^2+\frac{g}{N}M^4)}$
- 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): $\partial_{\eta} h_{ij}^{\mathrm{TT}}(\eta, \mathbf{x}(\eta)) n^{i} n^{j} \mapsto \frac{1}{2} \partial_{\eta} h_{ij}^{\mathrm{TT}}(\eta, \mathbf{x}(\eta)) n^{i} n^{j}$
- p.373, in Eq.(E-12): $\langle \partial_{\eta} h_{ij}^{\rm TT} \cdots \rangle \mapsto \frac{1}{4} \langle \partial_{\eta} h_{ij}^{\rm TT} \cdots \rangle$
- p.374a, in Eq.(E-13): $\langle h_{ij}^{\rm TT} \cdots \rangle \mapsto \frac{1}{4} \langle h_{ij}^{\rm TT} \cdots \rangle$
- p.374b, three expressions in the footnote 3: = $4\langle h^{\rm TT}(\eta, \mathbf{k}) \cdots \rangle$, $h^{\rm TT}_{11} = -h^{\rm TT}_{22} = h_+, h^{\rm TT}_{12} = h^{\rm TT}_{21} = h_{\times} \mapsto = 16\langle h^{\rm TT}(\eta, \mathbf{k}) \cdots \rangle$, $h^{\rm TT}_{11} = -h^{\rm TT}_{22} = 2h_+, h^{\rm TT}_{12} = h^{\rm TT}_{21} = 2h_{\times}$
- p.375, in the first sentence of the last paragraph: $H \propto 1/a \mapsto h^{\rm TT} \propto 1/a$ and $x = k\eta \ge 1 \mapsto x = k\eta \ge 2$

[Note: errors of p.291abc, p.292, p.294, p367, 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:

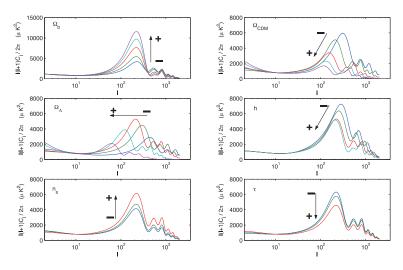


Figure E-3 in p.377, replaced with more clear one:

