Erratum: U-geometry: SL(5)

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The erratum essentially amounts to the multiplication of all the Ricci scalar expressions in the initial paper by factor two,

$$R_g \rightarrow 2R_g.$$

Consequently we have the following changes.

1. Eqs. (1.9) and (5.8) should be replaced by

$$\mathcal{R} = e^{-\phi} \left[R_g - \frac{7}{2} \partial_\mu \phi \partial^\mu \phi + 3 \square \phi + \frac{1}{2} e^{-\phi} (\nabla_\mu v^\mu)^2 \right]. \quad (1)$$

2. Eqs. (1.10) and (5.9) should be replaced by

$$\int_{\Sigma_4} M^{-1} \mathcal{R} = \int d^4x e^{-2\phi} \sqrt{-g} \left(R_g + \frac{5}{2} \partial_\mu \phi \partial^\mu \phi - \frac{1}{48} e^{-\phi} F_{\kappa\lambda\mu\nu} F^{\kappa\lambda\mu\nu} \right). \quad (2)$$

3. In eqs. (1.8) and (5.2), the expression of $C_{\lambda\mu\nu}$ should be replaced by

$$C_{\lambda\mu\nu} = \frac{1}{\sqrt{-g}} \epsilon_{\lambda\mu\nu\rho} v^\rho. \quad (3)$$

4. In eq. (5.2) the expression of v^κ should be replaced by

$$v^\kappa = \frac{1}{3! \sqrt{-g}} \epsilon^{\kappa\lambda\mu\nu} C_{\lambda\mu\nu}. \quad (4)$$

5. Footnote 8 should be ignored except “In our convention, $\epsilon^{0123} = 1$.”

All the above changes have been made in the latest arXiv version of the paper, [arXiv:1302.1652](#).