Erratum

Thermodynamic products in extended phase-space

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The following are corrections to typographical errors in the published paper:

- On page 13, as for an axisymmetric Kerr spacetime having two physical horizons namely $\mathcal{H}^+$ and $\mathcal{H}^-$, Eq. (A.6) should read:

$$V_+ V_- = \frac{\mathcal{A}_+ \mathcal{A}_-}{36} [2(r_+ + r_-)^2 + r_+ r_-].$$

- On page 13, Eq. (A.7) should read (for Kerr BH) as

$$V_+ V_- = \frac{128}{9} \pi^2 J^2 M^2 \left(1 + \frac{a^2}{8M^2} \right).$$

- On page 13, Eq. (A.8) (the thermodynamic volume product for Kerr–Newman BH) should read:

$$V_+ V_- = \frac{4\pi^2}{9(a^2 + Q^2)} [(4J^2 + Q^4)(8J^2 + a^4 + 4Q^4 + 4a^2 Q^2) + a^2 Q^2 (32M^4 - 20J^2 - 32M^2 Q^2 + 3a^2 Q^2 + 4Q^4)].$$