

Erratum to: Search for PeVatrons at the Galactic Center using a radio air-shower array at the South Pole

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The original article contains typographic errors in the Appendix B, which deals with the process of generating a noise trace. The results presented in the article are unaffected as they were derived with the correct versions of these equations.

The correction concerns a missing square root in Eqs. (7) and (9). The corrected equations are given here. The electric field developed on the antenna arm is given by

$$\begin{aligned} |\vec{E}| &= \sqrt{S_{\text{rec}} 2Z_0} \quad [\text{V/m}] \\ &= \sqrt{\frac{1}{2} 2Z_0 \frac{2k_B v^2 \delta v}{c^2} \int T(\theta, \phi) \, d\Omega}. \end{aligned} \quad (7)$$

The resulting voltage (Eq. (9) in the original article) can then be then re-written as

$$V(\nu) = \sqrt{2Z_0 \frac{k_B v^2 \delta v}{c^2} \int T(\theta, \phi) |\vec{l}_{\text{eff}}(\theta, \phi)|^2 \, d\Omega}. \quad (9)$$

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