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Erratum: HESS J1640−465 – an exceptionally luminous TeV γ-ray supernova remnant

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Due to an error in the integration of the differential energy spectrum, the luminosities stated in Sections 2.2 and 4.3 are incorrect. The luminosity of HESS J1640−465 above 1 TeV at 10 kpc distance is $L_{>1\,\mathrm{TeV}} \simeq 7.8 \times 10^{34}\,(d/10\,\mathrm{kpc})^2\,\mathrm{erg\,s^{-1}}$. The calculation of the points in the spectral energy distributions shown in Figs 3 and 5 are not affected by this error. Therefore, our conclusions in the discussion section are unaltered, especially what concerns the energy in interacting cosmic rays $W_p \bar{n}_H$.

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REFERENCE

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