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A physics-based model for wind turbine wake expansion in the atmospheric boundary layer – CORRIGENDUM

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doi:10.1017/jfm.2022.443, Published by Cambridge University Press, 20 June 2022

Key words: wakes, turbulent boundary layers

We have noticed a typographical mistake in (2.6). The correct expression for the scalar diffusion from a disk source, as given by Crank (1979), is as follows:

$$C(r, t) = \frac{C_0}{2D_c t} \exp\left(\frac{-r^2}{4D_c t}\right) \int_0^R \exp\left(\frac{-r'^2}{4D_c t}\right) I_0\left(\frac{rr'}{2D_c t}\right) r' dr'. \quad (1)$$

The correct expression was used in the study. Therefore, the results, discussion and figures regarding the analogy between wind turbine wake expansion and scalar diffusion from a disk source remain valid.

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VAHIDI, D. & PORTÉ-AGEL, F. 2022 A physics-based model for wind turbine wake expansion in the atmospheric boundary layer. *J. Fluid Mech.* **943**, A49.

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