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Corrigendum Notice: A corrigendum has been issued for this article and is included at the end of this document.

Post-Publication Notice

Corrigendum to "D. Zhumanov and Ch. Maripova, "Exploring particle physics through diffusion chambers: detecting, visualizing, and analyzing subatomic phenomena", tbusphys, vol. 2, no. 2, p. 0015, Jul. 2024. doi: 10.54355/tbusphys/2.2.2024.0015"

In the originally published version of this article, the Methods section lacked details on the statistical processing of measurements used to validate observation reliability. The following corrections have been made:

1. Section 2 (Methods):

- The updated version specifies preliminary calibration steps, repeated measurements (n=5), mean value (m) and standard deviation (σ) calculation formulas, and comparison with theoretical background radiation level (18 events/min).

- Visual classification of tracks (length, density, curvature) is now described as an additional indirect indicator of particle type and energy.

- A note on future enhancements using digital video recording and machine vision for automatic track analysis has been added.

2. Editorial improvements were made to enhance methodological transparency and reproducibility of experimental data.

These corrections do not alter the findings, discussion, or conclusions of the article but strengthen the rigor and accuracy of reported measurements.

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