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## Homogeneity testing of weighted datasets in HEP

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Simulations of elementary particles are fundamental to new discoveries in the field of high energy physics. The Monte Carlo-based simulations often take form of a weighted datasets that need to be compared with real measurements. This work explores different modifications of standard homogeneity tests to weighted datasets using numerical simulations.

Primary author: JARŮŠKOVÁ, Kristina (Department of Mathematics, FNSPE, Czech Technical University in

Prague)

Co-author: KŮS, Václav (Department of Mathematics, FNSPE, Czech Technical University in Prague)

Presenter: JARŮŠKOVÁ, Kristina (Department of Mathematics, FNSPE, Czech Technical University in Prague)

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