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Reconstruction of particle's energy spectrum in experiment with Unfolding technique

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In this talk we present an analysis of the Unfold technique for reconstruction of the truth distribution of the measured experimental value. To test we select a particle's rigidity measured by magnetic track system of PAMELA spectrometer, obtained by simulations of the device with Geant4 Monte-Carlo simulation. A modern popular unfolding techniques was analyzed: D'Agostini, SVD and L-curve. It was shown that a correct truth spectrum reconstruction depends on a lot of factors, for example, from splitting into energy bins.

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