

ELECTRON AND POSITRON SPECTRA FROM PAMELA BY MULTIVARIATE DATA ANALYSIS METHODS

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To achieve: down to 50 MeV lower energies: smaller time step: ~27 days for 2006–2016 complete dataset:

Main task: to optimize the selection method to increase the output statistics



Up to 1.5 times increase of statistics is estimated (compared to the previous manual approach)

Preliminary results have been obtained to observe charge-sign dependent solar modulation features:





Final note: machine learning methods may optimize processing big amounts of data that require strict classification and increase the output statistics if used correctly.