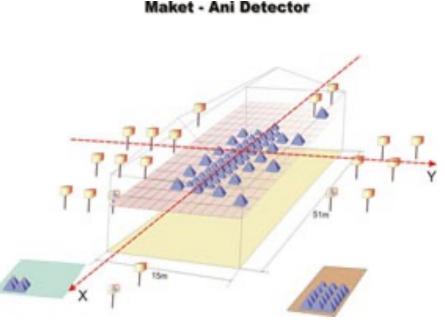




Yerevan Physics Institute, Alikhanyan Brothers 2, Yerevan, Armenia, 0036





The non-parametric multivariate methodology of data analysis allows event-by-event classification of all EASs and first-time present light and heavy nuclei energy spectra separately. p+He spectrum obtained by MAKET is in good agreement with the spectra from balloon and satellite measurements, within the QGSJet-II model.

The energy spectrum of the light component (p+He) measured by the MAKET-ANI detector in comparison with the spectra published by KASCADE, EAS-TOP, HEGRA, EAS-TOP+MACRO, and TIBET. The direct balloon measurements by ATIC-2 and JACEE, HAWC, PAMELA, DAMPE, and CREAM also are presented.

The QGSJet-II and QGSJet-III models (S.Ostapchenko, ISVHECRI-2022, India) predicted 10% higher N_e and N_mu. This should impact the energy reconstruction and thereby rescale down the normalization of our results, bringing them closer to most of the other measurements.



