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MEASUREMENT OF ABSOLUTE INTEGRAL INTENSITY OF VERTICAL COSMIC-RAY MUON IN THE RANGE (0.4-1) GeV/c AT GEOMAGNETIC LATITUDE 30.5° N (BASRAH)

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ABSTRACT

Absolute integral intensities of Vertical Cosmic-Ray Muons at sea-level in the range (0.4-1) GeV/c at Geomenetic latitude 30.5° N has been measured by using amoun spectrometer consisted of two palastic scintillation counters in coincidence. All particles accepted by the spectrometer were to pentrate a 10.5 cm thickness of lead. The soft components were, therefore, eliminated and single muons were detected only.

The experimental results have been corrected for any possible cause of error. The results are in agreement with those published by others and with the theoretical calculations.