

SOME PROPERTIES OF THE CENTRAL π^- -MESON CARBON INTERACTIONS AT 40 GeV/c

M.K. SULEYMANOV^{(a),(b)} et al.

^(a) CIIT, ISLAMABAD

^(b) JINR, DUBNA

We discuss some properties of the central π^- -meson carbon reactions at 40 GeV/c. While these results were obtained many years ago they have not been explained. The following results will be considered: regime change on the behavior of the event numbers as a function of the centrality; anomaly peak on the angular distributions of the protons emitted in these reactions; charge asymmetry on the π -mesons production in the back hemisphere in lcs.

Understanding of the results could help to explain the new ones coming from the modern experiments at high and ultrarelativistic energies.

E-mail: mais@jinr.ru