New results on fission of the Pb projectile in Pb–nucleus collisions at CERN SPS

NA50 collaboration

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Abstract

Fission of the Pb projectile has been investigated at the CERN SPS by the NA50 experiment equipped with a Cherenkov quartz detector used to measure the charge of projectile-like fragments. New results from data collected in interactions of a lead beam on different targets at 40 AGeV are presented here and are compared with those obtained previously at 158 AGeV. The contributions arising from the nuclear and electromagnetic fission mechanisms are extracted from the measured fission cross section; the electromagnetic contribution is then compared with the Weizsacker Williams predictions.

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