Production of multi-strange particles in lead-lead interactions at 158 GeV/c per nucleon

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Abstract

The NA57 experiment is designed to study the production of strange and multi-strange particles in nucleus-nucleus collisions at the CERN SPS. The predecessor experiment, WA97, has measured an enhanced abundance of strange particles in Pb-Pb collisions relative to p-A reactions at a beam momentum of 158 GeV/c per nucleon. The enhancement increases with the strangeness content of the particles.

The NA57 experiment has collected data over a wider centrality range than WA97. The first results on the production of multi-strange particles from the whole centrality range will be presented.

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