

PWA with full rank density matrix of the $\pi^+\pi^-\pi^-$ and $\pi^-\pi^0\pi^0$ systems at VES setup

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Collaboration

VES, IHEP, Protvino

Abstract content

Partial Wave Analysis of the $\pi^+\pi^-\pi^-$ and $\pi^-\pi^0\pi^0$ systems produced by 28 GeV/c π^- beam on berillium target is presented. About $30 \cdot 10^6$ events for the first one and $16 \cdot 10^6$ events for the second one are collected with VES setup. The statistics for 3π neutral is known to be the largest in the world while statistics for 3π charged is next to largest. The t' range for the analysis is $0 < |t'| < 0.8$ GeV²/c². The data are analyzed using formalism of full rank density matrix. The comparison of the analysis results for two systems is presented.

Primary author(s) : KACHAEV, Igor (IHEP, Institute for High Energy Physics, Protvino, Russia)

Presenter(s) : KACHAEV, Igor (IHEP, Institute for High Energy Physics, Protvino, Russia); RYABCHIKOV, Dmitry (TU Muenchen and IHEP Protvino)

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