

Extraction of Polarization Parameters from the Proton anti-Proton to Omega anti-Omega Reaction

Thursday, 19 October 2017 10:40 (20 minutes)

The upcoming PANDA experiment will make it possible to study the Proton anti-Proton to Omega anti-Omega reaction for the first time. Previous studies of spin variables in anti-hyperon hyperon production have given very interesting results, but have been restricted to single strangeness hyperons. The triple strangeness Omega hyperon is believed to be a spin 3/2 particle, which therefore carries more polarization parameters than a spin 1/2 particle. The aim of this presentation is to show how one still can retrieve the Omega polarization from the angular distribution of its decay products.

Primary author: PEROTTI, Elisabetta (Uppsala University)

Presenter: PEROTTI, Elisabetta (Uppsala University)

Track Classification: SFAIR