Contribution ID: **38** Type: **Short contribution**

Simulation study of the pbar p -> Sigmabar Lambda channel at PANDA

Thursday, 18 October 2018 14:15 (15 minutes)

At PANDA, strangeness production through $\bar{p}p \rightarrow$ Hyperon Antihyperon processes will be addressed. Measurements of the $\bar{p}p \rightarrow \bar{\Sigma}\Lambda$ channel for its comparison with the existing data of the $\bar{\Lambda}\Lambda$ channel are highly encouraged to study the role of isospin symmetry in hadron production dynamics. A previous simulation study from 2009 was performed with a simplified MC framework and an isotropic Sigmabar distribution. However, it has been found by the PS185 that the Sigmabar distribution is very strongly peaked in the forward direction with respect to the beam. In this talk, the motivation for performing a new, more realistic simulation study using the upgraded PandaRoot software and an angular distribution parametrization based on the experimental data will be presented.

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Session Classification: Kärnfysikermöte

Track Classification: SFS-KF möte