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Measurement of the Λ_c to proton and K(short) Spin Polarization

Abstract content

The information gathered in the E318 Focus experiment provides a spin polarization parameter measured for the $p + K(\text{short})$ channel. The measurement consists on fitting the angular distribution of the generation of the kaon, in the frame of the Λ_c propagation plane (with the original photon). The study involves the signal enhancement and angular distribution for particles and antiparticles; and the Monte Carlo calculations for efficiencies in such angular ranges. The study has measured a spin polarization in agreement with zero.

Summary

Primary author(s) : Mr. MORALES, Jorge D

Co-author(s) : CARRILLO, Salvador; CASTROMONTE, César

Presenter(s) : Mr. MORALES, Jorge D

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