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Measurement of transverse lambda polarization in quasi-real photoproduction at HERMES

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Transverse Lambda and Lambda-bar polarization produced inclusively in quasi-real photon-nucleon scattering have been studied in the HERMES experiment using a 27.6 GeV positron beam incident on hydrogen and deuterium gas targets. The average transverse polarizations were found to be $P^{Lambda}_n = 0.078 + 0.006(stat) + 0.012(syst)$ and $P^{Dar Lambda}_n = -0.025 + 0.015(stat) + 0.018 (syst)$ for Lambda and barLambda, respectively. The dependence of P^{Lambda}_n on the transverse and longitudinal

momenta of the Lambda hyperon has been studied.

Primary author: NARYSHKIN, Yury (Petersburg Nuclear Physics Institute)

Presenter: NARYSHKIN, Yury (Petersburg Nuclear Physics Institute)

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