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Predictions for hadron polarizations and left-right asymmetry in inclusive reactions involving photons

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A phenomenological model which has had some success in explaining polarization phenomena and left-right asymmetry in inclusive proton-proton scattering is considered for reactions involving photons and, hopefully, neutrinos.

In particular, the reactions (a) $\gamma + p \rightarrow H + X$, (b) $\gamma + p(\text{up}) \rightarrow \pi(\text{+-}) + X$, and (c) $p(\text{up}) + p \rightarrow \gamma + X$ are considered where γ = resolved photon, and hyperon $H = \Lambda^0, \Sigma^{\text{+-}}$, etc.

Predictions for hyperon polarization in (a) and the asymmetry in (b) and (c) provide further tests of this particular model.

Primary author: Dr SOLANO SALINAS, Carlos Javier (UNI, Peru)

Co-authors: Dr DA MOTTA, Helio (CBPF); Dr GUPTA, Virendra (CONVESTAV Merida)

Presenter: Dr SOLANO SALINAS, Carlos Javier (UNI, Peru)

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