

# NuInt12 : Eighth International Workshop on Neutrino-Nucleus Interactions in the Few-GeV Region



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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  $\gamma$  = 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.

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