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[Cancelled] Spin dependent structure functions and longitudinal spin asymmetries of the nucleon

The phenomenological study of the spin dependent $(g_1^{p,n})$ structure functions of the nucleon has been carried out using the polarized distribution functions of the quarks $\Delta q(x)$. In light of the improved precision of the world data, the p and n longitudinal spin asymmetries $(A_1^p(x)$ and $A_1^n(x))$ have been calculated. The ratio of the n and p structure functions $R^{np}(x) = \frac{F_2^n(x)}{F_2^p(x)}$ has also been presented. The results have been compared with the recent available experimental observations and other recent approaches.

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