Erratum

Deuteron $A(q^2)$ Structure Function in the Low and Medium q^2 Range

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Because of an error in the computer code, the numerical values of the $\rho\pi\gamma$ contributions to $A(q^2)$ in our previous paper [1] were calculated incorrectly. As a consequence,

Fig. 6. Percentage variations from the IA values of our theoretical results on $A(q^2)$ obtained with the Paris potential and the Höhler et al. model: full calculation (dashed line), without the ρ - and $\rho\pi\gamma$ -process contributions (solid line). Experimental data are as before [1]

Fig. 8. The nucleonic contributions (dot-dashed line), the pionic contributions (dotted line), the ρ -exchange contributions (dashed line) and the $\rho\pi\gamma$ contributions (solid line) to $A(q^2)$ reported as percentage variations from the IA values, in the case of the Höhler et al. fit

the curves showing the percentage variations from the impulse approximation (IA) values of our full theoretical predictions for $A(q^2)$ (dashed lines in Figs. 3–7) must be changed.

As an example for the correct results we here give the modified Fig. 6, corresponding to the case of the H model. Similar changes occur for the other models of the nucleon electromagnetic form factors. Moreover, we also give the new Fig. 8, which shows the correct percentage contribution of the $\rho\pi\gamma$ process with respect to the IA result for $A(q^2)$. We point out that in evaluating these $\rho\pi\gamma$ contributions, we used the more recent value $g_{\rho\pi\gamma} = 0.578$ of ref. [2].

However, our main conclusions given in the paper [1] are not affected by these corrections.

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References

1. Mosconi, B., Ricci, P.: Few-Body Systems **6**, 63 (1989)
2. Towner, I. S.: Phys. Rep. **155**, 263 (1987)

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