1975a

"The ABC Effect in the Reaction $NN \rightarrow d\pi\pi$," I. Bar-Nir, T. Risser, and M. D. Shuster, *Nuclear Physics*, Vol. B87, 1975, pp. 109–126.

This work, the logical sequel to 1973a, was a complete calculation of the ABC Effect in this reaction with the spin and isospin of the elementary particles treated correctly, and with a realistic $\pi N\Delta$ vertex function and a realistic deuteron wave function. The agreement with experiment was very good. The work also explained the appearance of the equally mysterious DEF effect.

Current research on the ABC effect follows the approach initiated by 1975a but with additional t-channel and s-channel exchanges. This work continues to be cited frequently.

Superseded 1973a

Succeeded by 1976a