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First 3-body final state analysis of $\gamma d \rightarrow \pi^- p p_S$ reaction in the quasi-free domain

For the first time in high energy physics, the final state of the reaction with the slow (missing) proton (that is at the region of so called Quasi-Free kinematics) was analyzed essentially in the framework of the 3-body Phase Space.

We present detailed analysis of the $d \rightarrow p p_S$ reaction at the initial energy range $E = 1.0-3.5$ GeV, and

Strong correlations between soft ($d \rightarrow n p_S$) and hard ($n \rightarrow p$) parts of the reaction amplitude have been

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