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Triton photodisintegration in three-dimensional approach

Two- and three-particles photodisintegration of the triton is investigated in a three-dimensional (3D) Faddeev approach. For this purpose the Jacobi momentum vectors for three-particles system and spin-isospin quantum numbers of the individual nucleons are considered. Based on this picture the three-nucleon Faddeev integral equations with the two-nucleon interaction are formulated without employing the partial-wave decomposition. The single-nucleon current as well as two-body currents are used in an appropriate form to be employed in the 3D approach.

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