

LOW-ENERGY ELECTROMAGNETIC
PROCESSES IN THREE-NUCLEON NUCLEI

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S u m m a r y

Low-energy two-particle photodisintegration of ${}^3\text{H}$ and ${}^3\text{He}$ nuclei and radiative capture of deuterons by protons are studied. Both the wave functions of the interpolation model and the proposed wave function of the nucleon-deuteron system constructed by analogy with exact solution of the Faddeev equation are used for the calculation of cross sections. The agreement with the experimental data is achieved only for the shape of the dependences for both functions. The approximate allowance for meson exchange currents provides also a possibility to fit the calculated and experimental cross section by magnitude. The results are compared with experimental data and other theoretical results calculated on the basis of the Faddeev equations.