

$^2\text{H}$  (d,pd) REACTION AT DEUTERON  
BEAM ENERGY OF 13.6 MeV

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S u m m a r y

Proton-deuteron (pd) coincidence spectra from the  $d + d$  reaction are measured at deuteron beam energy  $E_0 = 13.6$  MeV. Emission angles  $\vartheta_p/\vartheta_d = 39,3/39,3^\circ; 39,3/31,0^\circ$ ,  $\varphi_p - \varphi_d = 180^\circ$  are taken to account the neutron-proton (np) final state interaction (FSI) and in some degree to diminish the influence of other mechanisms. The experimental results are compared to theoretical calculations using the Watson - Migdal approximation for np FSI in the  $^3\text{S}_1$  and  $^1\text{S}_0$  (isospin forbidden) states. At symmetric angles, the optimum fitting is obtained with the impurity of a singlet state equal to  $(8 \pm 2)\%$ ; in the nonsymmetrical geometry, the contribution of a singlet state is not found.