

DO EXCITED STATES OF DINEUTRONS
REALLY EXIST?

B. Struzhko

Scientific Center 'Institute for Nuclear Research'
Nat. Acad. of Sci. of Ukraine
(47, Nauky Prosp., Kyiv 03022, Ukraine)

An inclusive spectrum of ${}^3\text{He}$ ions from the ${}^3\text{H}(d, {}^3\text{He})2n$ reaction at the deuteron beam energy $E_d = 31$ MeV is simulated taking into account a neutron-neutron final state interaction and sequential decay of the 21.2 MeV state ${}^4\text{He}^*$. All distinctive features of the experimental spectrum at 10° have been reproduced with only three free parameters in the fitting procedure. No confirmation is found about the existence of neutron-neutron excited states.