

# Features of the Energy Dependence of the Total Yields of Delayed Neutrons from $^{235}\text{U}$ and $^{237}\text{Np}$ Fission Induced by Fast Neutrons

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**Abstract**—Experimental results are presented for the total yields of delayed neutrons from  $^{235}\text{U}$  and  $^{237}\text{Np}$  fission induced by neutrons with energies in the range 0.7–5.0 MeV. The total yield of delayed neutrons from  $^{237}\text{Np}$  fission induced by neutrons with energies in the range 1–4 MeV has been found to depend greatly on energy. It has been shown that the character of the energy dependence of the total yield of delayed neutrons originating from the fission of heavy nuclei is controlled by the emission of prompt fission neutrons.