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## THE YIELDS OF THE NUCLEI FORMED IN THE 237Np AND 241Am SAMPLES IRRADIATED BY THE NEUTRON FIELD.

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The studies were carried out on proton beam with energy of 660 MeV, which generates a neutron field from "QUINTA"-setup [1,2].

The  $(n, \gamma)$  and fission reactions in the targets of <sup>237</sup>Np and <sup>241</sup>Am irradiated by neutron field were studied. The obtained results were compared with the EXFOR experimental base and interpreted using the GEANT4 and FLUKA programs [3].



Figure 1: Fission products from  $^{237}\rm{Np}$  irradiated by neutron field of "QUINTA"-setup from proton beam with E= 660 MeV.

- 1. Nucleonica 2018;63(1):17-22
- 2. S.Kilim et al. //XXII International Baldin Seminar, Russia, Dubna, September, 15-22, 2015.
- 3. N.Otuka et al. // Nuclear Data Sheets, Volume 120, 2014, pp. 272-276.

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