

Investigation of osmium neutron-rich isotopes in the reaction $^{136}\text{Xe}+^{208}\text{Pb}$

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The report presents results of the study of neutron-rich osmium isotopes with number of neutrons around $N \approx 126$. The main part of these experiments has been performed at K-130 accelerator of the Accelerator Laboratory of the University of Jyväskylä (Finland) with the use of CORSAR-V (correlation setup for the reaction products registration (volatile products)). Consideration of the features of the experimental setup is given in this report. This experiment was performed on the reaction $^{136}\text{Xe}+^{208}\text{Pb}$, at the energy around coulomb barrier. The experiment has the aim to verify the production of the neutron-rich isotopes ^{197}Os , ^{198}Os , ^{199}Os , and ^{200}Os . As a result of the processing of the experimental data on the β - γ and γ - γ coincidences, the identification of the decay chains of from ^{193}Os to ^{200}Os was made.