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Estimations of GASSOL capabilities in investigations of multinucleon transfer reactions

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Multinucleon transfer (MNT) reactions are known as possible access to neutron-rich isotopes of heavy and superheavy nuclei, but their application in experiments is complicated by a broad angular distribution of emitted products. A new superconducting solenoid GASSOL is being designed in FLNR JINR, the main purpose of which is an investigation of the chemical properties of superheavy elements. Large angular acceptance of the GASSOL gives reason to believe that it is suitable for the kinematics of MNT reactions. In this report, a theoretical estimation of GASSOL capabilities for 238U + 238U reaction is presented.

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