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Automation of calculations of angular distributions of differential cross sections of reactions

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In this paper, a set of programs is presented that allow obtaining angular distributions. For testing, the reaction 10B(7Li, 6Li)11B was used at an incident beam energy of 58 MeV. The experiment was done using the U-400 accelerator beam of the FLNR JINR, Dubna. One of the goals of the experiment was to study the excited states of the 11B nucleus. The obtained differential cross sections are planned to be described using the Distorted Wave Born Approximation method (DWBA).

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