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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 $^{10}\text{B}(^7\text{Li}, ^6\text{Li})^{11}\text{B}$ 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 ^{11}B nucleus. The obtained differential cross sections are planned to be described using the Distorted Wave Born Approximation method (DWBA).

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