

**DETAILED STUDY OF DOUBLE-DIFFERENTIAL CROSS-SECTIONS FOR THE
 $^{17}\text{O}(n,\alpha)^{14}\text{C}$ REACTION**

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The $^{17}\text{O}(n,\alpha)^{14}\text{C}$ reaction was studied in order to clarify discrepancies in the data on the reaction cross section for the range of 50 keV to 1000 keV and perform α -particles angular distributions corresponding to different resonances measurements. The experiment was carried out using a gridded ionization chamber. The target was niobium oxide enriched in ^{17}O .

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