

ACCELERATION OF ^{14}N IONS ON U-120 CYCLOTRON. FIRST RESULTS

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The new spectrometric regime - intensive beam of $^{14}\text{N}^{++}$ with 8,7 MeV energy was obtained on the classic U-120 cyclotron. Back-scattering spectra on different samples with heavy elements on a surface of a light matrix were obtained with the help of time-of-flight method. The feasibility of such beam use for indication of microquantities of heavy elements (10^{11} atoms / cm^2), located on a surface of a light matrix is shown.