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Low energy nuclear reaction measurements using monolithic silicon telescope SHUNJI NISHIMURA, MIZUKI KURATA-NISHIMURA, RIKEN, HISASHI FUJIKAWA, AMADIO GUILHERUME, JAN-JUN HE, SHIGERU KUBONO, HIDETOSHI YAMAGUCHI, CNS, University of Tokyo, TAKASHI TERANISHI, YASUO WAKABAYASHI, Kyushu University, SHAWN BISHOP, MEIKO KUROKAWA, TAKASHI KISHIDA, TORU MOTOBAYASHI, RIKEN — ^{8}Li(α,n)^{11}B is recognized as an important reaction for passing through the valley of A=8 in nucleosynthesis. While, there are some difficulties of measuring the most interesting energy region of data below 1 MeV due to the background particles consists of elastically scattered ^{8}Li ions, and α particles as well as the decay products of ^{8}Li. A new experimental apporach for exploring these low-energy nuclear reactions using a monolithic silicon telescope have been performed at the CNS-CRIB spectrometer. Our preliminary results will be presented.

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