

Measurement of Pionic ^{121}Sn Atom at RI Beam Factory

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We are going to report preliminary experimental results in our recent pilot experiment performed in October 2010 for spectroscopy of pionic ^{121}Sn atom in the RI beam factory, RIKEN. We have taken the excitation spectrum of the $^{122}\text{Sn}(d,^3\text{He})$ reaction near the pion emission threshold.

Presently, elaborate analysis is on-going and the preliminary spectrum observes a distinct structure of peaks in the bound state region, which is a candidate of the first observation of the pionic ^{121}Sn atom.

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