

Excitation spectra of carbon nuclei near eta' emission threshold

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We conducted measurement of excitation spectra in $^{12}\text{C}(p,d)$ reactions near the eta' emission threshold. We employed a 2.5 GeV proton beam accelerated by the synchrotron SIS-18 of GSI impinging on a carbon target. The emitted deuterons at 0 degree were momentum-analyzed by the fragment separator FRS used as a high-resolution spectrometer. We achieved an extremely good statistical sensitivity with a sufficiently good energy resolution. We give a presentation on the analysis status and the preliminary results of the experiment.

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