



国立研究開発法人理化学研究所 仁科加速器研究センター
第263回 RIBF核物理セミナー
RIKEN Nishina Center for Accelerator Based Science
The 263rd RIBF Nuclear Physics Seminar

Study on cluster states in unstable nuclei with alpha-resonant scattering

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Alpha resonant scattering is a simple and promising method to study alpha-cluster structure in nuclei. The method can be coupled with the thick-target in inverse kinematics (TTIK), which is particularly suitable for measurements with low-intensity RI beams. Several measurements with the alpha resonant scatterings under the TTIK have been performed at the RI beam separator CRIB, a low-energy RI beam separator of

Center for Nuclear Study (CNS), the University of Tokyo. One measurement was on the linear chain levels in the C-14 nucleus, predicted with the AMD calculator by Suhara and En'yo. According to the prediction, these levels appear a few MeV or more above the $^{10}\text{Be} + \alpha$ threshold. The results of recent experiments to search the linear-chain levels at CRIB as well as other facilities are discussed.

Jan.8th(Tue.)2019 13:30~
RIBF Hall, RIBF bldg., RIKEN

* The talk will be given in English language.

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