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Cluster structure in A=6 nuclei above particle decay threshold HIDETOSHI AKIMUNE, TAMIO YAMAGATA, MAKI KINOSHITA, MASAHISA OHTA, AYAKO SHIOKAWA, HIROAKI UTSUNOMIYA, Department of Physics, Konan University, KAORU HARA, Japan Nuclear-Cycle Development Institute, SHINTARO NAKAYAMA, KENICHI FUSHIMI, KAYOKO ICHIHARA, YUKO MATSUI¹, MAMORU FUJIWARA, NAONOBU HASHIMOTO, KEIGO KAWASE, KOUSUKE NAKANISHI, MASARU YOSOI², MASAYOSHI TANAKA, Kobe Tokiwa College, MARK GREENFIELD, International Christian University, KEIGO HARA, KEK — The di-trinucleon clustering-resonance of ³He+³He in ⁶Be and t+t in ⁶He were studied via the ⁶Li(³He,t ³He) and ⁶Li(⁷Li,⁷Be t) reactions at the incident energies of 150 MeV/A and 65 MeV/A. A new resonance in ⁶Be and ⁶He was found at around Ex=18 MeV in the binary decay channel of ³He+³He and t+t. The angular correlations measured for ³He and t particles in the binary decay show a contribution dominantly from the multipolarity of an L=1.

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