[RIBF-ULIC-miniWS-023] SUNFLOWER - In-beam gamma and MINOS

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Excited states in the nuclei 38,40,42Si have been studied using in-beam gamma-ray spectroscopy following multi-nucleon removal reactions to investigate the systematics of excitation energies along the Z = 14 isotopic chain.

Experiment have been performed at RIBF with high intensity 48Ca beam emplyed to produce the secondary beams of 40S and 44S. The DALI2 gamma-ray spectrometer have been employed to measure the de-excitaion gamma-rays from excited nuclear states via C(40S,38Si+gamma), C(44S,40Si+gamma) and C(44S,42Si+gamma) reactions. Here, we will report on the status of analysis: the observed excited states, tentative spin-parity assignment and future plan.

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