

## The search for double Gamow–Teller giant resonance at RIBF

We are aiming at the first observation of the giant resonance state in the double Gamow–Teller transition (Double Gamow–Teller Giant Resonance, DGTGR).

We utilize the double-charge exchange reaction ( $^{12}\text{C}, ^{12}\text{Be}(0_2^+)$ ) reaction for the observation of the DGTGR.

We performed the first measurement of the ( $^{12}\text{C}, ^{12}\text{Be}(0_2^+)$ ) at RIBF in May 2021.

In this contribution, the outline of the experiment and the preliminary result will be reported.

**Primary author:** SAKAUE, Akane (CNS)

**Track Classification:** Experimental Nuclear Physics: Low and Intermediate Energies