

Abstract Submitted  
for the HAW05 Meeting of  
The American Physical Society

**Double Gamow Teller Resonance by means of Heavy Ion Reaction** KEIJI TAKAHISA, Y. KOREEDA, RCNP, Osaka University, H. AKIMUNE, Konan University, H. EJIRI, RCNP, Osaka University, H. FUJIMURA, Seoul National University, M. FUJIWARA, RCNP, Osaka University, M. GREENFIELD, International Christian University, K. HARA, H. HASIMOTO, K. HATANAKA, T. ITAHASI, T. KAWABATA, K. KAWASE, N. MAEHARA, RCNP, Osaka University, S. MORDECHAI, University of the Negev, Y. NAGAI, K. NAKANISHI, S. NINOMIYA, T. SHIMA, RCNP, Osaka University, M. TANAKA, Kobe Tokiwa Jr. College, A. TOMYO, RCNP, Osaka University, S. UMEHARA, Department of Physics, Osaka University, H. YOSHIDA, RCNP, Osaka University, S. YOSHIDA, Department of Physics, Osaka University, S. YOSOI, Department of Physics, Kyoto University — To study double spin-isospin responses in view of the  $\beta\beta 0\nu$  decays, double charge-exchange nuclear reactions have measured at RCNP. We have succeeded to measure the double charge exchange reaction by means of heavy ion reaction. From these experiments, we conclude that the ( $^{11}\text{B}, ^{11}\text{Li}$ ) reaction at 70 MeV/nucleon is a good spectroscopic tool. We believe that the reaction can be well applied to the study of pure spin-flip nuclear responses including DGT excitations.

Keiji Takahisa  
RCNP, Osaka University

Date submitted: 25 May 2005

Electronic form version 1.4