

# Frontiers in Gamma Ray Spectroscopy FIG18

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## CAGRA Project at RCNP, Osaka University

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### Content :

We have started a CAGRA (Clover Array Gamma-ray spectrometer at RCNP/RIBF for Advanced research) project at RCNP, Osaka University. This project constructs a Compton-suppressed Germanium clover array (CAGRA) by an international collaboration (U.S.-Japan-China-Italy, ...). It consists of 16 Ge Clover detectors with BGO Compton shields, and a digital data acquisition system employing GRETINA digitizers is used, which enables high-rate data taking. At RCNP cyclotron facility, there are various experimental capabilities such as high-resolution spectrometer, Grand Raiden, low-energy RI beam facility, EN beam line, and the DC muon beam facility, MuSIC. By combining the CAGRA with these devices, many physics opportunities will be provided. So far, CAGRA campaign experiments at EN beam line and Grand Raiden were successfully performed. It is also planned to bring the CAGRA array to RIBF for further experimental studies using unstable nuclear beams. In this talk, an overview of the CAGRA project and recent experimental results in the studies of mass 40 region obtained from the CAGRA experiment at RCNP will be presented.

**Primary authors :** Dr. IDEGUCHI, Eiji (RCNP, Osaka University)

**Co-authors :**

**Presenter :** Dr. IDEGUCHI, Eiji (RCNP, Osaka University)

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