

# Active target developments in Japan

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Active target is a key device expanding the studies with nuclear scattering experiment, owing to its high detection efficiency, high luminosity and detection capability of the low energy recoil. In Japan, several active targets have been developed for the studies with wide-energy-range unstable nuclei beam available in RIBF and RCNP and for the studies with gamma source in NewSUBARU facility.

An active target using multi-wire amplification was developed for the measurement of photo-disintegration of  $^4\text{He}$ . MAIKo has been developed aiming at the study of the cluster structure in nuclei and used for the measurement of the photo-disintegration. GEM-MSTPC has been developed for application in studying low-energy nuclear reactions using radio-isotope beams. CAT with deuterium gas has been developed for the high-intensity intermediate-energy radio-isotope beams.

This talk will introduce these active target developments in Japan and their outlook.

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