

Construction of active target TPC in CENS

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Active Target Time Projection Chamber (AT-TPC) is one of advanced particle detectors which allows a precise measurement of nuclear reactions using rare isotope beams at the present and future nuclear physics facilities. A new Active Target TPC for Multiple nuclear physics eXperiments (AToM-X) is being developed at the Center for Exotic Nuclear Studies (CENS). It consists of a highly segmented Time Projection Chamber (TPC) using a Micromegas, a field cage, and solid state detectors. It enables the high resolution measurement of the 3-dimensional particle tracks, energy, and position with the high detection efficiency. Details of the development status and the future plans will be presented.

Primary authors: CHA, Soomi (Center for Exotic Nuclear Studies, Institute for Basic Science); AHN, Sunghoon (Tony) (Center for Exotic Nuclear Studies, Institute for Basic Science)

Co-authors: BAE, Sunghan (Center for Nuclear Study, The University of Tokyo); DO, Seungkyung (Korea University); GU, Gyoungmo (Sungkyunkwan University); HAHN, Kevin Insik (Center for Exotic Nuclear Studies, Institute for Basic Science); HUH, Jangyong (Center for Exotic Nuclear Studies, Institute for Basic Science); LEE, Jung-woo (Center for Exotic Nuclear Studies, Institute for Basic Science); KIM, Aram (Korea University); KIM, Minju (Center for Exotic Nuclear Studies, Institute for Basic Science); KIM, Yunghee (Center for Exotic Nuclear Studies, Institute for Basic Science); PARK, Chaeyeon (Ewha Womans University); PEREIRA-LOPEZ, Xesus (Center for Exotic Nuclear Studies, Institute for Basic Science)

Presenter: CHA, Soomi (Center for Exotic Nuclear Studies, Institute for Basic Science)

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