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Development of new generation Active Targets and Solenoidal Spectrometers for reactions with radioactive beams.

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With the rise of modern facilities dedicated to the production of radioactive beams, Active Target Time Projection Chambers have emerged as one of the preferred tools for spectroscopy. Active Targets offer unprecedented luminosity allowing direct reaction experiments with beam intensities as low as few hundreds particles per second. The FICA group at the University of Santiago de Compostela is actively involved in developing and operating several active targets, such as ACTAR (at GANIL), the ATTPC (at FRIB), and a next-generation Optical Time Projection Chamber (OTPC) for fission studies, developed by the group. This presentation delves into the key aspects and capabilities of these distinctive detectors.

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Clasificación de la sesión : Gaseous

Clasificación de temáticas : Gaseous detectors