

Workshop on Active Targets and Time Projection Chambers for High-intensity and Heavy-ion beams in Nuclear Physics

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Commissioning of the ACTAR TPC

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The Active TARget and Time Projection Chamber (ACTAR TPC) is a gas-filled detection system whose construction was finished a few weeks ago at the Grand Accélérateur National d'Ions Lourds (GANIL). The detector benefits from new technologies required for its mechanical design as well as a state-of-the-art electronics system (GET) that enables high pixel densities with fully digitized signals for each channel. This provides the possibility to discriminate between multiple tracks superimposed in time or in space. Commissioning of the ACTAR TPC has been performed in-beam just after its construction. ^{18}O was sent onto a target of isobutane to study the well known resonant scattering $^{18}\text{O}(p,p')$. First experimental results and comparison to previous data will be shown as well as simulations to characterize the detector capacities.

Auteur principal: MAUSS, Benoît (Grand Accélérateur National d'Ions Lourds)

Orateur: MAUSS, Benoît (Grand Accélérateur National d'Ions Lourds)