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Transfer Reactions with ACTAR TPC: highlights from the first campaign @ GANIL

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Direct reactions are fundamental tools to investigate the structure of exotic nuclei. Studies of nuclei far away from stability are usually performed with secondary radioactive beams, that suffer from low intensities and need to be compensated with thick targets and high efficient detection systems to increase luminosity. Active targets are invaluable devices that, among other important features, allow to reconstruct the reaction in three dimensions without loss of resolution.

The Active Target and Time Projection Chamber (ACTAR TPC) detector has been developed at GANIL to cover a broad physics programme. The device was commissioned in 2018 showing an excellent performance of the detector. Since then, several experiments have been performed at GANIL. In this talk, I will present the physics motivation and some preliminary results with special focus on the foreseen achievements for transfer reactions with active targets.

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