

STAR: a cryogenic LXe test facility for the characterization of innovative electrodes for the DARWIN experiment

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This work is based on the realization of a cryogenic test facility (STAR) with a noble liquid single phase TPC of small dimensions and the design and production of innovative electrode prototypes, that could possibly solve the difficulties related to the realization and correct functioning of the very large electrodes needed for DARWIN, the next-generation Xenon based dual-phase time projection chamber (DP-TPC). The STAR facility, currently being installed at Laboratori Nazionali del Gran Sasso of INFN, will be used to characterize the performances of the electrode prototypes.

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