

XeSAT2023 - International Workshop on Applications of Noble Gas Xenon to Science and Technology



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The XeLab Project

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One of the main issues with increasing the size of two-phase Xe TPCs concerns their electrodes, which are exposed to additional sagging due to gravity and their mutual electrical attraction. The XeLab Project aims to overcome this challenge by developing an original concept of floating electrodes, where the canonical gate-anode system is replaced by a novel set of electrodes whose planarity is provided by tiny insulating spacers. The materials are chosen in such a way that the sum of all forces, at a given liquid level, is equal to zero. XeLab will also be used to test novel cooling systems based on liquid nitrogen. The XeLab cryogenic system and its TPC are under construction and will be hosted at the LPNHE Laboratory in Paris.

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