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【377】 A 2.6m tall DARWIN Demonstrator

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The DARWIN Time Projection Chamber will be the most sensitive dark matter detector. The increased size of the detector over its precursors will raise new challenges. The DARWIN demonstrator, designed and to be built at the University of Zürich, will mainly be used to investigate the drift of electrons in liquid xenon over a distance of 2.6m, along with all the technological advances needed to achieve this goal. Amongst others, the design of a high voltage electric feedthrough in liquid phase and the determination of the requirements in xenon purity will be addressed.

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