

Dark matter hunt with XENON1T: the analysis challenge

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XENON1T, the largest xenon TPC ever built, is performing the most sensitive direct search for WIMP dark matter on earth. As xenon TPCs become larger, long drift times and extreme fidelity requirements challenge the data acquisition, processing, and modeling. This talk explores how XENON1T dealt with these challenges for its first results, and what this implies for XENON1T's future physics prospects. (The results themselves are discussed in prof. Lindner's talk.)

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