ID de Contribution: **43** Type: **Ordinary**

Dark matter direct detection experiments with xenon in dual phase.

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Dual phase (liquid - gas) direct detection xenon experiments have recently demonstrated their exceptional capabilities for rare event detection. They examine the interaction of dark matter particles through their scatter off nuclei in the target. This technology currently achieves the most stringent limits on WIMP (Weakly Interacting Massive Particle) searches: it is evolving rapidly since the last decade and is expected to continue leading the field. The most recents results from LUX, PandaX and XENON Collaborations will be reviewed, focused on dark matter sensitivity limits. The near future of the first ton-scale target mass experiments will be presented too.

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Classification de Session: Dark Matter & Axions

Classification de thématique: Experiment