

## Searching for dark matter in high energy nuclear recoils at the Lux Zeplin experiment.

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The standard dark matter search performed by LZ looks spin independent dark matter interactions in low energy xenon nuclear recoils. However, interactions at higher energies are possible and can be interpreted through the lens of effective field theory. Our plan for the high energy nuclear recoil search using data from LZ's most recent science run is presented.

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**Session Classification:** Poster Session