

The Oscura experiment

Friday 31 March 2023 14:00 (15 minutes)

The electron-counting capability of the skipper-CCD technology is allowing it to lead the search for DM-electron interactions in the low-mass regime with g -size experiments. There are ongoing efforts for developing massive direct DM search experiments with this technology. Oscura, an array of $\sim 20,000$ silicon skipper-CCDs (10 kg), is the biggest within them. Its final goal is to have less than one $2e^-$ background events for the full exposure of 30 kg-year. In this talk I will present the current status of the Oscura experiment, the projected sensitivities to different DM models and the future plans.

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