Contribution ID: **21** Type: **Parallel session talk**

# Dual-sided Skipper-CCDs for sub-GeV dark matter searches

*Wednesday 8 October 2025 14:00 (20 minutes)*

Skipper-CCDs - finely segmented silicon detectors with the ability to count single charges - have been used by SENSEI and DAMIC-M for sub-GeV dark matter searches with world-leading sensitivity.

I will present the concept and projected performance of the dual-sided Skipper-CCD, a proposed detector that simultaneously reads out electrons and holes from the two sides of the device.
This will greatly improve background rejection for future large-scale CCD experiments such as Oscura.

**Author:** UEMURA, Sho (Fermilab)

**Presenter:** UEMURA, Sho (Fermilab)

**Session Classification:** RDC 7 Low-Background Detectors

**Track Classification:** RDC 7 Low-Background Detectors