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SENSEI: Sub-GeV Dark Matter Search with Skipper CCDs

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SENSEI (Sub-Electron Noise Skipper Experimental Instrument) is the first dedicated direct-detection experiment using Skipper-CCD sensors to look for low-mass Dark Matter candidates that interact with electrons. Skipper-CCDs are able to make multiple non-destructive measurements of the pixel's charge and use this information to reduce the readout noise to a negligible level to resolve single electrons. At the same time, these sensors record the lowest rate in silicon detectors of events containing one, two, three, or four electrons. In this talk we present the latest results and the next steps for SENSEI after the successful commissioning of the first batch of science-grade sensors at SNOLAB.

Author: CABABIE, Mariano (SENSEI Collaboration)

Presenter: CABABIE, Mariano (SENSEI Collaboration)

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