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Tien-Tien Yu (CERN): Exploring the sub-GeV Dark Matter Frontier with SENSEI

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SENSEI is a small-scale silicon CCD detector designed to search for sub-GeV dark matter. The Skipper readout technology employed by SENSEI has sensitivity to single-electron signals, thus giving SENSEI one of the lowest thresholds ever demonstrated in DM direct detection. This low threshold will allow for unprecedented sensitivity to the largely unexplored, but theoretically well-motivated, area of sub-GeV dark matter models. In this talk, I will introduce SENSEI, describing the collaboration and experimental setup, as well as discuss some of the current science results.

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