

# The SENSEI Experiment: An Ultrasensitive Search for Sub-GeV Dark Matter

*Thursday, 30 July 2020 08:50 (25 minutes)*

```
\documentclass[12pt]{article}
\usepackage{amsmath}
\usepackage{graphicx}
\usepackage{hyperref}
\usepackage[latin1]{inputenc}
```

```
\title{The SENSEI Experiment: An Ultrasensitive Search for Sub-GeV Dark Matter}
```

```
\author{Mariano Cababie, \ for the SENSEI Collaboration}
```

```
\date{July 30 - August 5, 2020}
```

```
\documentclass[12pt]{article}
```

```
\begin{document}
```

```
\maketitle
```

```
\begin{abstract}
```

Devices with low energy thresholds are one of the main pillars for the direct detection of dark matter, and tremendous progress has been made in the past few years in probing dark matter with sub-GeV masses. The SENSEI (Sub-Electron Noise Skipper Experimental Instrument) Collaboration has pioneered the silicon-based Over the past year, SENSEI has been testing, characterizing, and taking science data with new Skipper-CCDs, whi

```
\end{abstract}
```

```
\end{document}
```

## Secondary track (number)

09

**Primary author:** Mr CABABIE, Mariano (SENSEI Collaboration)

**Presenter:** Mr CABABIE, Mariano (SENSEI Collaboration)

**Session Classification:** Dark Matter Detection

**Track Classification:** 09. Dark Matter Detection