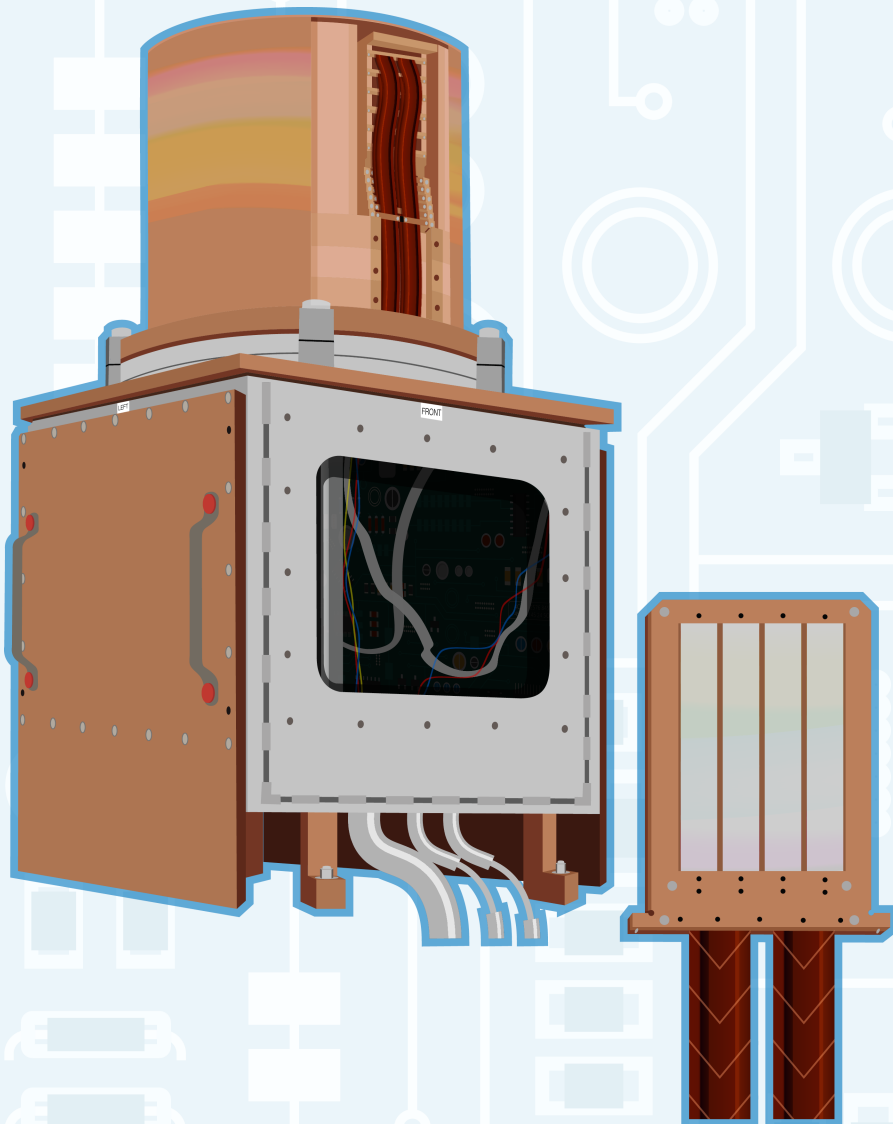


# SENSEI

## Detection with CCDs



SENSEI is sensitive to low-mass dark matter using CCD (charged couple device) technology to search for rare particle events.

When a particle interacts with the CCDs, there is a small energy change which is captured by its millions of pixels. SENSEI can count every electron within a pixel which leads to accurate measurements and no background noise.

CCDs are commonly found in digital cameras, but the ones in SENSEI are much bigger.

The concept of a skipper CCD was first developed in the early 1990s, but technology recently advanced enough to make building them possible.

