



Contribution ID: 476

Type: **Poster Presentation**

Skipper CCD for DAMIC

We present results for the Skipper CCD in preparation for its implementation in the DAMIC (Dark Matter In Ccds) project. The skipper reduces readout noise by averaging the value of each pixel over multiple samplings. Electrons are brought to a floating well at readout rather than being connected to ground, after which they may be returned to the summing well for repeated measurements. Preliminary results show readout noise of less than $.5 e^-$ for 100 samplings per pixel. The skipper has further application in any setting requiring extremely low readout noise without stringent readout speed requirements.

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Track Classification: Dark Matter Detectors