Contribution ID: **4** Type: **Oral**

Development of a new imager testing projector using a micromirror array

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Charge Coupled Devices and MKIDs are pixelated imaging sensors used for astronomy. FNAL in involved in the development of instruments using these sensors. I will describe the development of a novel micro-mirror array projector for the characterization of these imaging sensors. The CCD require tight control of the light intensity and the exposure time, and the micromirror array allow to also control the illumination pattern at the level of 100 um. I will describe the design of a 3D printed dark box with an automated shutter, and a focusing system to house the projector. The final device will allow new ways for the characterization of the scientific imagers.

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