

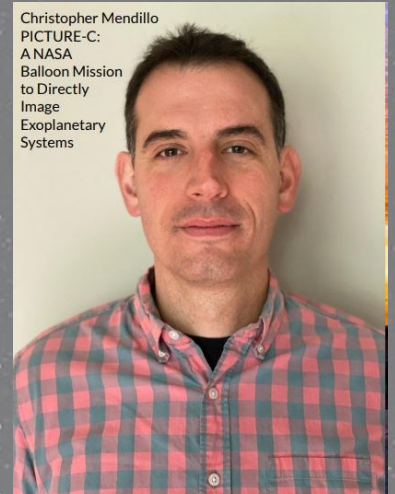
Recent results from the second flight of PICTURE-C, a NASA balloon mission to directly image debris disks and exoplanetary systems

The Planetary Imaging Concept Testbed Using a Recoverable Experiment - Coronagraph (PICTURE-C) mission will directly image debris disks and exozodiacal dust around nearby stars from a high-



altitude balloon. The first flight of PICTURE-C launched from the NASA Columbia Scientific Balloon Facility (CSBF) in Ft. Sumner, NM on September 28, 2019. This engineering flight successfully demonstrated many key technologies for future exoplanetary direct imaging missions, such as an off-axis un-obscured telescope, two different deformable mirror technologies and a vector vortex coronagraph. PICTURE-C currently sits poised for a second science-focused flight, which will be launching from

New Mexico in late September, 2022. This talk will present a history of the PICTURE-C mission and (hopefully) the results from our second flight, which may include the first ever images of exozodiacal dust around Vega and Epsilon Eridani.



Christopher Mendillo
PICTURE-C:
A NASA
Balloon Mission
to Directly
Image
Exoplanetary
Systems

Thursday, October 6th

4:00-5:00 p.m.

CAS 502 and on Zoom

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