Francesco
Pecora
University of Delaware
Yan Yang, University of Delaware
Sarah Gibson, HAO, NCAR
Nicholeen Viall, NASA Goddard
Rohit Chhiber, University of Delaware, NASA Goddard
Craig DeForest, Southwest Research Institute
William H. Matthaeus, University of Delaware
Oral
(Invited Talk)
The upcoming PUNCH mission will resolve macroscopic features of the inner heliosphere but also admit sufficiently high spatial resolution to probe scales of turbulence well in the inertial range.
As PUNCH launch approaches, it is important to have beforehand a benchmark of what observations will look like and how they can be directly related to the turbulent environment of the lower corona. We present a numerical study that combines magnetohydrodynamics simulations of turbulence together with forward synthesis of white-light data to probe the algorithm's capability of reconstructing mass density fluctuations along PUNCH lines of sight.
Presentation file
13_F_Pecora.pdf
YouTube link
View Video
Meeting homepage
PUNCH 4 Science Meeting
Download to PDF