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(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.

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