

1125-VC-1551 **Connor D Lincoln*** (cdlincol@asu.edu), School of Mathematical & Statistical Sciences, Box 871804, Arizona State University, Tempe, AZ 85287, and **Carl Gardner**. *Numerical Simulation of the Protostellar Jet HH24 C/E*.

I will describe a model of the evolution of the supersonic protostellar jet HH24. We use a positivity preserving, third order WENO scheme for calculations across discontinuities, parallelized with OpenMP and MPI. The Hubble Telescope image of HH24 depicts large, ellipsoidal cavities which are created by the jet. We show that these cavities are being created primarily by the pulsing of the jet, rather than by a constant jet flow. (Received September 17, 2016)