

1086-VL-2718 **Andrew J Knapp*** (andrew.knapp@asu.edu). *WENO Simulations of Astrophysical Jets*. Preliminary report.

Galactic nuclear jets are known to trigger star formation when colliding with interstellar gas. However, the effects of protostellar jets on star formation are not known. Current observations of protostellar jets propagating through nebulae are not yet detailed enough to determine if gravitationally bound objects are formed, motivating numerical investigation. In this talk, we will discuss the application and parallel implementation of Weighted Essentially Non-Oscillatory (WENO) finite volume schemes to collisions between protostellar jets and nebulae, and present the results of our numerical experimentation.

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