

Jonathan Carroll-Nellenback Publications

Papers:

Carroll-Nellenback, J. J., Frank, A., Heitsch, F., *The Effects of Inhomogeneities within Colliding Flows on the Formation and Evolution of Molecular Clouds*, (in preperation)

Carroll-Nellenback, J. J., Shroyer, B., Frank, A., Ding, C., *Efficient Parallelization for AMR MHD Multiphysics Calculations: Implementation in AstroBEAR*, arxiv:1112.1710 (accepted to J Comp Phys)

Carroll, J. J., Frank, A., Blackman, E. G., *Isotropically Driven Versus Outflow Driven Turbulence: Observational Consequences for Molecular Clouds*, ApJ 2010, 722, 145-157

Carroll, J. J., Frank, A., Blackman, E. G., Cunningham, A. J., Quillen, A. C., *Outflow-Driven Turbulence in Molecular Clouds*, ApJ 2009, 695, 1376-1381

Cunningham, A. J., Frank, A., Carroll, J. J., Blackman, E. G., Quillen, A. C., *Protostellar Outflow Evolution in Turbulent Environments*, ApJ 2009, 692, 816-826

Huarte-Espinosa, M., Carroll-Nellenback, J. J., Nordhaus, J., Frank, A., Blackman, E. G., *The Formation and Evolution of Wind-Capture Disks In Binary Systems*, (in preperation)

Randall, D., Baldrige, B., Zimmerman, E., Carroll, J. J., Speakman, R., Brown, D., Taylor, R., Patwardhan, A., Burgess, D., *Blood pressure power within frequency range ~ 0.4 Hz in rat conforms to self-similar scaling following spinal cord transection*, AJPREGU 2005, 288, 737

Posters/Precedings:

Carroll-Nellenback, J. J., Shroyer, B., Frank, A., Ding, C., *Efficient Parallelization for AMR MHD Multiphysics Calculations: Implementation in AstroBEAR*, ASPC 2012, 459, 291C

Carroll, J. J., Frank, A., Blackman, E. G., Cunningham, A. J., Quillen, A. C., *Outflow Driven Turbulence in Molecular Clouds: MHD Simulation Studies*, AAS 2009, 21442506C

Carroll, J. J., Frank, A., *The Dynamics Of Protostellar Outflow Interactions*, AAS 2007, 211.9201C

Haig, C. M., Heitsch, F., Carroll, J. J., Frank, A., *Effects of Shear and Magnetic Fields on Molecular Cloud Formation in the Flow-Driven Picture in 2D*, AAS 2012, 21934902H

Shroyer, B., Cunningham, A. J., Frank, A., Poludnenko, A., Jones, T., Yirak, K., Carroll, J., *Radiative MHD Shocks in Heterogeneous Media*, AAS 2009, 21442506C