David Christopher Collins

Professional Preparation

University of California, San Diego
Physics, PhD, 2009
University of Cincinnati
Physics, BS, 2001
University of Cincinnati
Mathematics, BA, 2001

Appointments

Florida State University, Associate Professor	2019-present
Florida State University, Assistant Professor	2013-2019
Los Alamos National Laboratory, Metropolis Postdoctoral Fellow	2011-2013
University of California San Diego, Postdoctoral Scholar	2009-2011

5 closely related products

- "Magnetohydrodynamical Effects on Nuclear Deflagration Fronts in Type Ia Supernovae" Hristov, Boyan; Collins, David C.; Hoeflich, Peter; Weatherford, Charles A.; Diamond, Tiara R., ApJ, 2018, 858, 13
- "Observational Diagnostics of Self-Gravitating MHD Turbulence in Giant Molecular Clouds", Burkhart, B., Collins, D. DC., Lazarian, A. Astrophysical Journal, 2015, 808, 48
- "The Two States of Star Forming Clouds", Collins, D. C., Kritsuk, A., Padoan, P., Li, H., Xu, H., Ustyugov, S., Norman, M. L., Astrophysical Journal, 2012, 750, 13
- "Self-Generated Turbulence in Magnetic Reconnection", Oishi, J. S., Mac Low, M., Collins, D. C., Tamura, M. Astrophysical Journal Letters, 2015, 120
- "Cosmological AMR MHD with Enzo", Collins, D. C., Xu, H., Norman, M. L., Li, H., Li., S., Astrophysical Journal Suppliment, 2010, 186, 308

5 other significant products

- "Enzo: An Adaptive Mesh Refinement Code for Astrophysics", The Enzo Collaboration Bryan, G. L., Norman, M. L.I, O'Shea, B. W., Abel, T., Wise, J. H., Turk, M. J., Reynolds, D. R., Collins, D. C., Wang, P., Skillman, S. W., Smith, B., Harkness, R. P., Bordner, J., Kim, J., Kuhlen, M., Xu, H., Goldbaum, N., Hummels, C., Kritsuk, A. G., Tasker, E., Skory, S., Simpson, C. M., Hahn, O., Oishi, J. S., So, G. C., Zhao, F., Cen, R., Li, Y. Astrophysical Journal Suppliment, 2014, 19
- "The Razor's Edge of Collapse: The Transition Point from Lognormal to Power-Law Distributions in Molecular Clouds," Burkhart, B., Stalpes, K., Collins, D. C., ApJ, 2017, 834,1
- "Local Support Against Gravity in Magnetoturbulent Fluids", Schmidt, W., Collins, D. C., Kritsuk, A. G., Monthly Notices of the Royal Astronomical Society, 2013, 43,
- "Accuracy of Core Mass Estimates in Simulated Observations of Dust Emission", Malinen,
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- "Comparing Numerical Methods for Isothermal Magnetized Supersonic Turbulence", Kritsuk,
 A., Nordlund, Å, Collins, D. C., Padoan, P., Norman, M. L., Abel, T., Banerjee, R., Federrath,
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