

Kuo-Chuan Pan – Biographical Sketch

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Professional preparation

National Tsing Hua University	Hsinchu, Taiwan	Physics	B.S., 2004
University of Illinois at Urbana-Champaign	Champaign, IL	Astronomy	Ph.D., 2013
Universität Basel (Postdoc)	Basel, Switzerland	Astrophysics	2013 – 2016
Michigan State University (Postdoc)	East Lansing, MI	Astrophysics	2016 –

Appointments

Postdoctoral Scholar	11/2016 –
Department of Physics and Astronomy Joint Institute for Nuclear Astrophysics Michigan State University, East Lansing, MI	
Postdoctoral Scholar	8/2013 – 10/2016
Universität Basel, Basel, Switzerland	
Computational Science and Engineering Fellow	9/2010 – 5/2012
University of Illinois at Urbana-Champaign, IL	
Research Assistant	2/2006 – 6/2007
Academia Sinica Institute of Astronomy and Astrophysics, Taipei, Taiwan	

Five Products Directly Relevant to This Proposal

- K.-C. Pan**, M. Liebendörfer, M. Hempel, F.-K. Thielemann 2017, *Multi-Dimensional Core-Collapse Supernova Simulations with Neutrino Transport*, the Proceedings of the 14th International Symposium on Nuclei in the Cosmos (NIC-XIV), JPS Conf. Proc. 14, 20703
- K.-C. Pan**, M. Liebendörfer, M. Hempel, F.-K. Thielemann 2016, *Two-Dimensional Core-Collapse Supernova Simulations with the Isotropic Diffusion Source Approximation for Neutrino Transport*, *ApJ*, 817, 72
- K.-C. Pan**, P.M. Ricker, R.E. Taam 2014, *Search for Surviving Companions in Type Ia Supernova Remnants*, *ApJ*, 792, 71
- K.-C. Pan**, P.M. Ricker, R.E. Taam 2012, *Evolution of Post-Impact Companion Stars in SN Ia Remnants within the Single-Degenerate Scenario*, *ApJ*, 760, 21
- K.-C. Pan**, P.M. Ricker, R.E. Taam 2012, *Impact of Type Ia Supernova Ejecta on Binary Companions in the Single-Degenerate Scenario*, *ApJ*, 750, 151

Five Other Significant Products

- K.-C. Pan**, P.M. Ricker, R.E. Taam 2015, *Simulations of the symbiotic recurrent nova V407-Cyg. I. Accretion and shock evolutions*, *ApJ*, 806, 27
- K. Litke, Y.-H. Chu, A. Holmes, R. Santucci, T. Blindauer, R. A. Gruendl, C.-H. Li, **K.-C. Pan**, P.M. Ricker 2017, *Nature Of The Diffuse Source And Its Central Point-Like Source In SNR 0509-67.5*, *ApJ*, 837, 111
- C.-J. Li, Y.-H. Chu, R. A. Gruendl, D. Weisz, **K.-C. Pan**, S. D. Points, P.M. Ricker, R. C. Smith, F. M. Walter, and R. Webbink 2017, *Physical Structure of the Type Ia supernova Remnant N103B*, *ApJ*, 836, 85
- K.-C. Pan**, P.M. Ricker, R.E. Taam 2013, *Evolution of Post-Impact Helium Stars in Type Ia Supernova Remnants within the Single-Degenerate Scenario*, *ApJ*, 733, 49
- K.-C. Pan**, P.M. Ricker, R.E. Taam 2010, *Impact of Type Ia Supernova Ejecta on a Helium Star Binary Companion*, *ApJ*, 715, 78
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D. Billingham (Master degree, Universität Basel)