

國立清華大學第 25 屆新進人員研究獎得獎人簡介



天文研究所 潘國全副教授

潘國全老師在 2018 年 8 月加入清華大學天文所，主要的研究領域是計算爆炸天文物理、超新星爆炸、與重力波天文物理。潘老師也是清華的校友，於 2004 年畢業於物理系，之後在美國伊利諾大學取得天文學博士，並在瑞士巴塞爾大學和美國密西根州立大學擔任博士後研究員。潘老師的研究團隊透過自洽數值模擬來探討超新星爆炸的爆炸機制並預測其所釋放的微中子和重力波輻射。重力波天文物理也是國際間近年天文研究發展的重點領域。在國際上潘老師也參與 KAGRA, LIGO 等大型國際重力波合作計畫並受邀於若干大型國際會議。

Professor Kuo-Chuan Pan joined the Institute of Astronomy at National Tsing Hua University in August 2018. Professor Pan's research focuses on computational explosive astrophysics, supernova explosions, and gravitational wave astrophysics. He is also an alumnus of the NTHU. He got his bachelor degree in physics in 2004 at NTHU. He then received his Ph.D. at the University of Illinois at Urbana-Champaign in the US. Professor Pan was a postdoc fellow at the University of Basel, Switzerland, and at the Michigan State University in the US. One of the main achievements of Professor Pan's group is performing self-consistent supernova simulations with neutrino transport to study the explosion engine and neutrino and gravitational wave emissions. This research field on gravitational wave physics is also one of the frontier research directions in astronomy. Professor Pan and his group members actively participate in many international collaborations on gravitational wave physics, including the KAGRA and LIGO collaborations.