

張世忠博士簡歷

張世忠博士的研究主要方向是冷原子物理中的理論問題。他在 2003 年於清華大學獲得學士學位；2009 年時在美國伊利諾伊大學厄巴納-香檳分校獲得物理學博士學位。自 2012 年 8 月起在香港大學任職。

張世忠博士是最早提出強相互作用冷原子物理中的普適性質的幾位研究者之一。這些普適關係已經成為冷原子研究的一個重要方向，並在眾多實驗中得到驗證。他也在自旋軌道耦合量子氣體的研究中作出重要的貢獻，闡明了其在玻色凝聚以及費米超流中的作用。近日，張世忠博士研究具有高階分波相互作用的單份量費米子氣體中輸運性質。

Dr Shizhong Zhang' s Biography

Dr Shizhong Zhang is a theoretician working on the general area of ultra-cold atomic gases. He received his Bachelor Degree from Tsinghua University and PhD from University of Illinois at Urbana-Champaign in 2009.

He is an early pioneer in developing a set of universal relations in strongly interacting Fermi gas involving the so-called contact, which has since become a central quantity in thermodynamic and dynamical quantities in cold atom physics. His recent works focused on the transport properties of unitary Fermi gas. He has also made important contributions to the physics of spin-orbit coupled quantum gases, illuminating the role of spin-orbit coupling in the structure of Bose-Einstein condensate, Fermi superfluidity and optical lattices. His most recent work deals with viscosities in dilute Fermi gas with p-wave interactions.