



澳門大學
UNIVERSIDADE DE MACAU
UNIVERSITY OF MACAU

講者簡介 Speaker's Profile

薛其坤院士畢業於山東大學光學系激光專業，並在中國科學院物理研究所獲得博士學位。九十年代先後在日本東北大學金屬材料研究所和美國北卡萊羅納州立大學物理系學習和工作。1999年至2005年曾任中國科學院物理研究所研究員、表面物理國家重點實驗室主任。2005年起任清華大學物理系教授，同年11月被增選中國科學院院士。2010年至2013年任清華大學理學院院長、物理系主任，2011年至2016年任低維量子物理國家重點實驗室主任。

薛院士目前是清華大學分管科研的副校長，任國家自然科學基金會委員、教育部科技委常務副主任。他是國際著名期刊 *Physics Review B*、*Applied Physics Letters*、*Surface Science Reports*、*Journal of Applied Physics* 和 *AIP Advances* 等的編輯委員。

薛院士的研究方向是量子物理，是當前我國在物理學領域最傑出科學家。2013年他首次從實驗上發現“量子反常霍爾效應”，這是建國以來中國物理學家發現的第一個重要物理效應，被2016年諾貝爾物理獎評獎委員會列入該領域過去三十年最重要的實驗成果。2012年發現液氮溫區高溫超導，是高溫超導領域過去三十年最重要的突破之一。他曾獲得第三世界科學院物理獎（2010）、求是傑出科學家獎（2014）、何梁何利科學與技術成就獎（2014）和首屆未來科學大獎——物質科學獎（2016），是首批科學家工作室入選者。

Prof. Qikun XUE graduated from the Department of Optics at Shandong University with his first degree in laser physics and later earned his PhD from the Institute of Physics at the Chinese Academy of Sciences (CAS). In the 1990s, he pursued further studies and worked in the Research Institute of Metal Materials at Tohoku University in Japan and then in the Department of Physics at the North Carolina State University in the U.S. From 1999 to 2005, he was researcher at the Institute of Physics and director of the State Key Laboratory of Surface Physics at CAS. A professor in the Department of Physics at Tsinghua University since 2005, he was appointed as a member of CAS in November of the same year. Moreover, he was dean of the School of Sciences and head of the Department of Physics at Tsinghua University between 2010 and 2013, as well as director of the State Key Laboratory of Low-Dimensional Quantum Physics between 2011 and 2016.



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Currently, Prof. Xue is vice president for research at Tsinghua University, a member of the National Natural Science Foundation of China, and deputy director of the Science and Technology Commission of the Ministry of Education. He also serves on the editorial board of such world-renowned journals as *Physics Review B*, *Applied Physics Letters*, *Surface Science Reports*, *the Journal of Applied Physics*, and *AIP Advances*.

Prof. Xue specializes in quantum physics and is a distinguished physicist in China. In 2013, he was the first scientist ever to discover quantum anomalous Hall effect in his experiment, which was not only the first significant physics discovery by a Chinese physicist since the founding of the PRC, but also recognized by the Nobel Committee for Physics in 2016 as the most important experimental outcome in the field over the past 30 years. Another groundbreaking achievement was his discovery of high-temperature superconductivity at liquid nitrogen temperature in 2012.

He has received awards and titles such as the Third World Academy of Sciences Award in Physics in 2010, Qiu Shi Outstanding Scientist Award in 2014, the Prize for Scientific and Technological Achievements of Ho Leung Ho Lee Foundation in 2014, the first laureate of the Future Science Prize – Physical Science Prize in 2016, as well as being among the first batch of scientists selected for the scientist's studio of the Ten-Thousand Talents (Wanren) Programme.