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郭后扬

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【关闭】

Houyang Guo, male, born in 1965, selected for National “Thousand Talents Program”, Leader of “EAST Advanced Divertor Physics” 973 project funded by National Magnetic Confinement Fusion Science Program, Recipient of the prestigious “Overseas Young Chinese Scholars Collaboration Research” grant from Natural Science Foundation of China, and the research award from K.C. Wong Education Foundation, Hong Kong, in collaboration with Institute of Plasma Physics, Chinese Academy of Sciences (ASIPP). Ph. D, Visiting Professor and Leader of “EAST Divertor and Edge Physics” task force at ASIPP. Also Chief Scientist, Chief Experimental Strategist, Head of Experimental Operations Department at Tri Alpha Energy (California, USA), which is by far the largest compact toroid magnetic fusion energy research & development facility in the world. Main research interests are divertor and edge plasma physics, plasma-materials interactions, innovative magnetic fusion energy research and development.

Dr. Guo obtained his PhD degree from Institute of Energy and Materials, University of Quebec, Canada, 1993. Dr. Guo then joined JET Joint Undertaking, the world largest fusion energy research facility, situated in England, 1994 - 1999, and played a leadership role in both divertor physics and core plasma confinement physics studies: Physicist in charge of High fusion performance Task Force, which set the world record fusion power production of 16 MW, Experimental Session Leader of ITER-relevant steady-state Task Force, Divertor Recycling Topic Group Leader, and member of ITER edge and divertor physics Expert Group etc. From 1999 to 2008, Dr. Guo worked at University of Washington, USA, as Principal Research Scientist, and Experimental Leader of the Field Reversed Configuration (FRC) Research Program, the largest FRC research facility funded by U.S. Department of Energy (US DOE). Dr. Guo has extensive interactions with the broad plasma physics and fusion energy community, e.g., member of American Physical Society, Division of Plasma Physics (APS-DPP) international conference program committee (2003 & 2009), Leader of US DOE Compact Toroid (Spheromak and FRC) Program Review Working Group (2008). Dr. Guo has a long-term close collaboration with ASIPP. Dr. Guo has published over 100 papers in scientific journals, including the most prestigious physics journal, Physical Review Letters.

Students interested in experimental plasma physics and modeling, surface physics and material science are welcome.

郭后扬, 男, 1965年出生。中组部“千人计划”入选者, 国家磁约束核聚变能源研究专项“EAST先进偏滤器物理研究”973项目首席, 中国国家自然科学基金委员会海外青年学者合作研究基金, 以及中科院王宽诚基金会科研奖金获得者。中国科学院等离子体物理研究所美籍外聘教授, 博士生导师, “EAST偏滤器及边界物理”专题组负责人。并担任美国加州Tri Alpha Energy 新型核聚变能源研究开发公司首席科学家, 首席实验战略家, 实验运行部主任。从事偏滤器及边界等离子体物理、等离子体与材料表面相互作用、以及新型核聚变能源研究及开发工作。

1993年毕业于加拿大魁北克大学能源及材料研究所, 获博士学位。1994-1999年, 作为欧共体核聚变研究中心(JET Joint Undertaking)核心组主要成员, 从事核聚变等离子体性能及其优化的研究。先后担任了“芯部等离子体性能优化”专题组物理负责人(该专题组开创并保持了16兆瓦核聚变功率输出的世界纪录)、“ITER国际热核试验反应堆稳态运行”相关研究专题组实验负责人、偏滤器粒子再循环课题组组长、以及ITER边界和偏滤器物理专家组成员等。1999-2008年, 在美国华盛顿大学作为高级研究员从事新型核聚变能源之探索, 并总体负责场反位形的实验研究。参与并负责多项国际学术活动, 先后两次担任美国物理学会等离子体物理大会组委会成员(2003, 2009), 以及美国能源部球马克及场反位形研究计划鉴定工作组组长(2008)等。多年来与中国科学院等离子体物理研究所保持了密切的学术合作。在国际顶级物理杂志Physical Review Letters上发表了多篇论文, 在聚变相关专业杂志上发表了论文共一百多篇。

可招收等离子体物理实验及模拟方向的硕士和博士研究生。欢迎等离子体物理、表面物理以及材料科学专业的学生踊跃报考。

理论物理

等离子体物理

凝聚态物理

光学

生物物理学

材料物理与化学

大气物理学与大气环境

核能科学与工程

核技术及应用

制冷及低温工程

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