

The 10th IOPP Seminar: Prof. Jie Meng (孟杰), Peking University(北京大学), July 22nd 2020, Wednesday, 10:00am (Beijing time)

Time : July 22nd, 2020, Wednesday, 10:00am (Beijing time)

Speaker: Prof. Jie Meng (孟杰), Peking University(北京大学)

Title: 基于形变相对论连续谱理论的原子核质量表

Abstract:

The study of exotic nuclei far from the β stability line is stimulated by the development of radioactive ion beam facilities worldwide and brings opportunities and challenges to existing nuclear theories. Including self-consistently the nuclear superfluidity, deformation, and continuum effects, the deformed relativistic Hartree-Bogoliubov theory in continuum (DRHBc) has turned out to be successful in describing both stable and exotic nuclei. Due to several challenges, however, the DRHBc theory has only been applied to study light nuclei so far. Our aim is to develop the DRHBc theory based on the point-coupling density functional and examine its possible application for all even-even nuclei in the nuclear chart toward a mass table by taking Nd isotopes as examples.

报告人简介:

孟杰, 北京大学教授。1991 年获北京大学博士, 先后为中国科学院、德国洛森朵夫研究中心博士后, 慕尼黑工业大学洪堡学者, 日本理化学研究所科技厅奖励研究员。1997 年至今任北京大学教授。发表论文 400 多篇, 引用 10000+ 次, H 因子高于 60, 入选爱思唯尔高被引学者。获中国高校自然科学一等奖两次 (2000 年和 2013 年)、中国物理学会吴有训物理奖 (2007 年)、伊朗花拉子模国际奖 (2008 年)、华人物理学会亚洲成就奖 (2009 年)、德国金科奖 (2010 年) 等荣誉。2000 年入选教育部长江特聘教授、国家杰出青年基金资助, 2012 年入选美国物理学会会士, 2018 年入选欧洲科学院外籍院士。