

北京大学物理学院凝聚态物理与材料物理所

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Synchrotron Light Applications for Characterizing Semiconductor Materials

郭其新 教授

About speaker: Professor Qixin GUO 郭其新 was born in Shanghai in 1964. He received B. E., M.E., and Dr. E degrees in electronic engineering from Toyohashi University of Technology. He is currently a Professor of Department of Electrical and Electronic Engineering at Saga University as well as Director of Saga University Synchrotron Light Application Center. His research interests include epitaxial growth and characterization of compound semiconductor materials. He has authored more than 250 scientific papers published in Applied Physics Letters, Physical Review B and other refereed journals.

Abstract: Synchrotron light (SL) is electromagnetic radiation which is emitted when electrons moving at close to the speed of light in vacuum are changed direction by a magnetic field. SL covers a wide spectra ranging from infrared to X-rays with high brightness and has had an immense impact in fields including physics, chemistry, biology, earth science, medicine, and life science. In this talk, I will focus on the applications for characterizing compound semiconductors, especially on the determination of band offset of heterostructures, electronic and atomic structures.

时间: 10月8日 (星期四) 15:00—16:30

地点: 北京大学物理大楼中212教室

联系人: 王新强研究员 **邮箱:** wangshi@pku.edu.cn