“固体所青联会”第五十期学术论坛

报告题目： **Detecting the Quantum oscillation in high magnetic fields**

报 告 人： 张警蕾 (中国科学院强磁场中心)

报告时间：**2016年11月17日（周四）上午 09:00**

报告地点：固体所大楼221会议室

举办单位：中科院固体物理研究所青年联合会

中科院青年创新促进会合肥物质科学研究院小组

报告摘要：Measurement of quantum oscillations is a very powerful way for studying the Fermi-surface topologies. Recently, several techniques for probing the quantum oscillations had been successfully constructed in our Water-Cooled magnets with the highest field up to 38.5T and lowest temperature down to 0.3K. In this presentation, I will first explain the basic principles of torque magnetometry and demonstrate its applications on topological materials and superconductors. In the second part, I will report our preliminary result of $ZrTe_5$. From systematic changes of Shubnikov-de Haas oscillations, we find a pressure-induced topological quantum phase transition of $ZrTe_5$.

欢迎各位老师和同学参加！