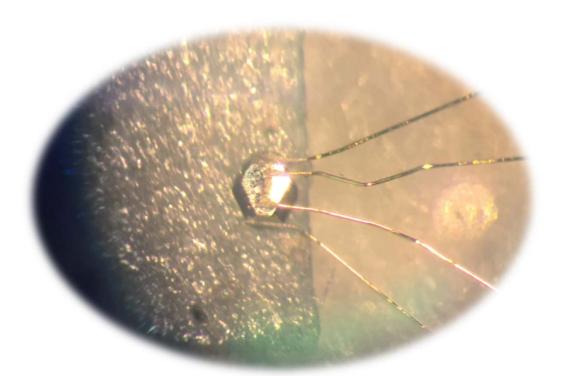
양자 극한 물성 연구실

Quantum Condensed Matter Physics Lab in Extreme Conditions

2021. 11. 11 경북대학교 물리학과 대학원 설명회 & 연구실 소개

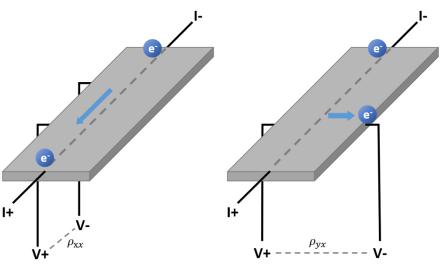




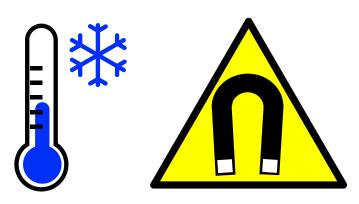
"저항측정"

- 시료의 저항을 직접 측정
- 소자의 저항을 측정하여 시료의 자성을 간접 측정

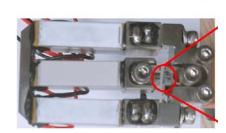
• 시료의 저항을 직접 측정



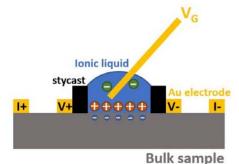
저항 종류



외부 환경 변화







Ordered state

Phase Diagram



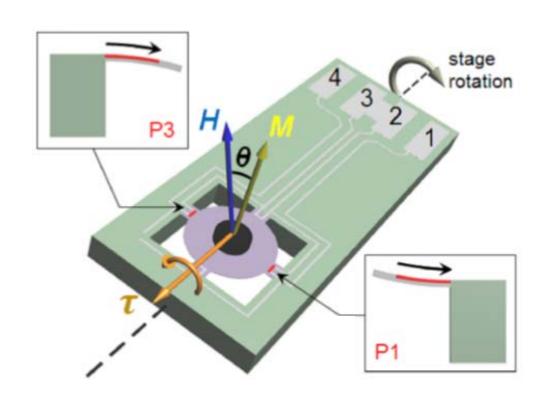
obturator



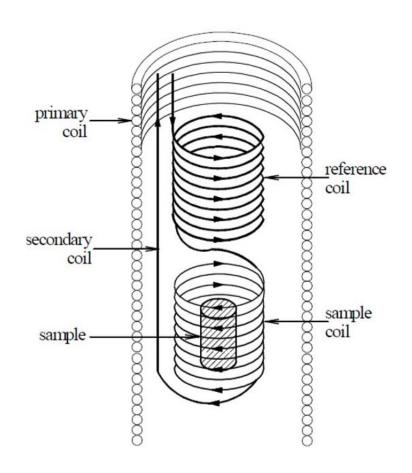
Disordered state



• 소자의 저항을 측정하여 시료의 자성을 간접 측정



토크 측정 소자



교류 자기감수율 측정 소자

H. Takahashi, et al., "New Method for Torque Magnetometry Using a Commercially Available Membrane-Type Surface Stress Sensor", J. Phys. Soc. Jpn. 86, 063002 (2017). C. Topping and S. Blundell, "A.C. susceptibility as a probe of low-frequency magnetic dynamics", J. of Phys.: Cond. Mat. 31, 013001 (2019). Lecture note on a.c. susceptibility measurement in high-Tc superconductors, University of Florida Advanced Physics Laboratory.



• 관심 분야

