

A03-2

Detection of spin-polarized Fermi surface and localized-delocalized transition in photo-induced correlated FET

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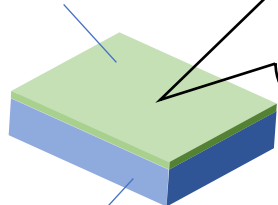
Our Mission: Observation of condensed conjugation

Aims of A03-2

- Observation of Fermi surface (FS) quantum oscillations and non-reciprocal resistance.
- Microscopic investigation of localized-delocalized transition in correlated FET.
- Understanding of FS spin-polarized structures and superconducting properties.

High magnetic fields (> 20 T)

Photo-active dipole molecular film



Correlated molecular semiconductor

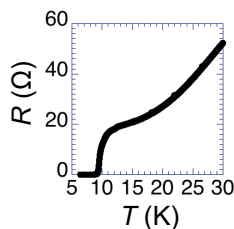
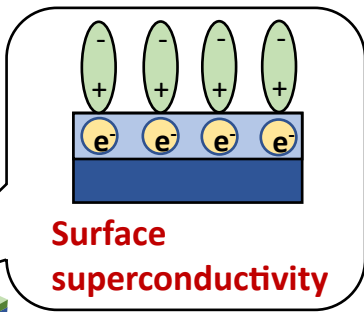
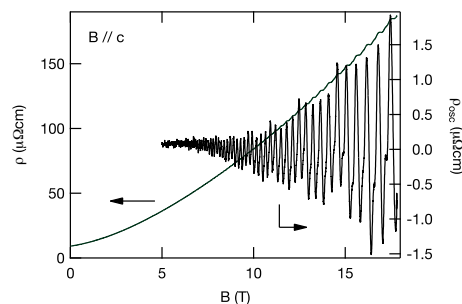


Photo-induced correlated FET
+ high magnetic fields

An example of Fe-based superconductor [Terashima, **Kimata** et al., *J. Phys.: Conf. Series* **449** (2013) 012022.]



FS quantum oscillations

