

**Professor T. Takahashi -- Direct Observation of Dirac-electron Behavior in Iron-based High-temperature Superconductors - A Path for Ultrafast Superconducting Devices --**

Professor Takashi Takahashi at WPI Advanced Institute for Materials Research and Assistant Professor Takafumi Sato at Graduate School of Science, Tohoku University have first found out the specific electronic state called Dirac cone in newly discovered Iron-based high-temperature superconductors. The discovery will help development of superconducting ultrafast electronic devices.

The research has been conducted as a part of Core Research of Evolutional Science and Technology (CREST) and Transformative Research-project on Iron Pnictides (TRiP) by Japan Science and Technology Agency (JST). The research result has been selected as Highlighted Article and will be published online in Physical Review Letters by American Physical Society (APS).

[Contact]

(About Research Result)

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