548th ASRC Seminar

Date: 15:40 ～16:40, 15 April

Location: Meeting room 103, ASRC Building

Speaker: Prof. Shin-ichi Uchida
(Dep. Physics, University of Tokyo)

Title: Cuprate pseudogap and charge orders emergent from incoherent antinodal states

Charge order is generically observed in doped Mott insulators. It is pervasive over a region of the doping-temperature phase diagram in transition-metal oxides the hole-doped two-leg ladder cuprate. On the other hand, the stripe order was only a known charge order in the high-T_c cuprates. However, charge order has recently been discovered for most cuprate materials, and is now recogenized as a generic order of the cuprates.
Also generic is the pseudogap order. The intra-unit-cell (q = 0) order, either electronic nematic or magnetic order ascribed to orbital current, is supposedly associated with the pseudogap 'phase'. I will discuss relationship between q = 0 pseudogap and $q \neq 0$ charge order, and revisit the 'strange-metal' state from which both orders as well as superconductivity emerge.

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