

Competing charge order, glass and liquid in organics

1/4 -filled band system

(DI-DCNQI)₂Ag (Quasi-1D)

Charge ordering vs **melting**

Controlled by transfer integral

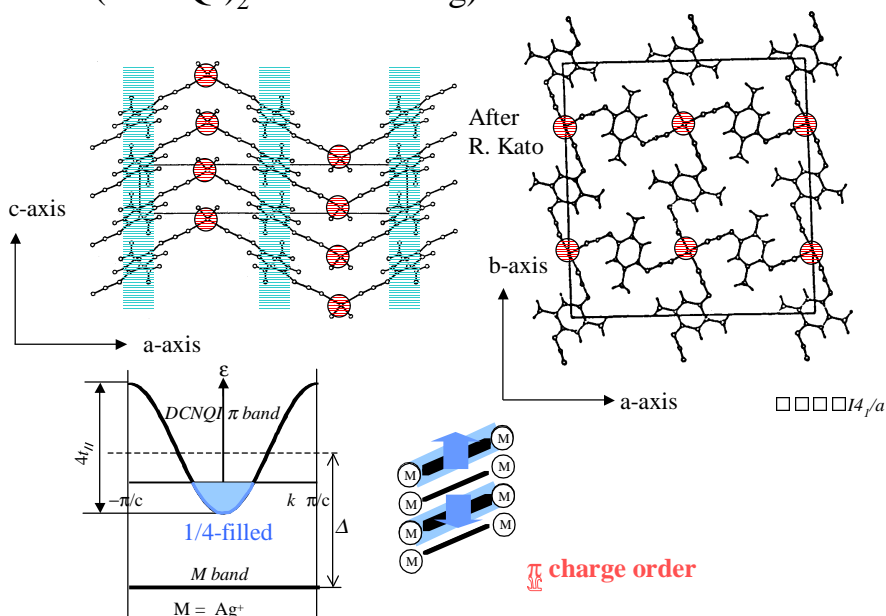
θ -(ET)₂X (triangular lattice)

Charge ordering vs **charge glass**

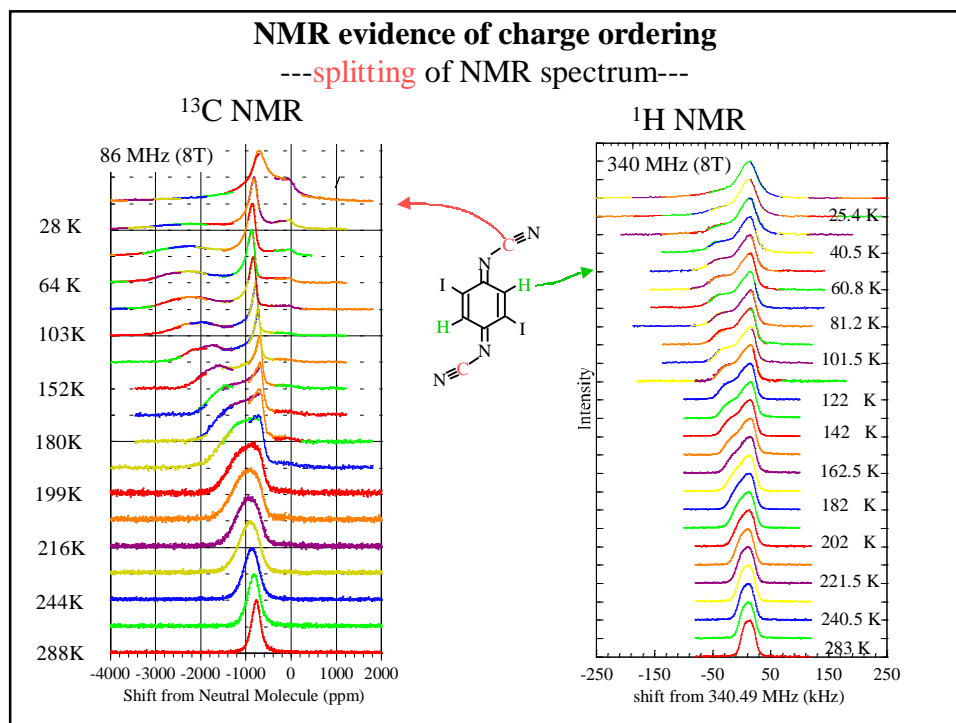
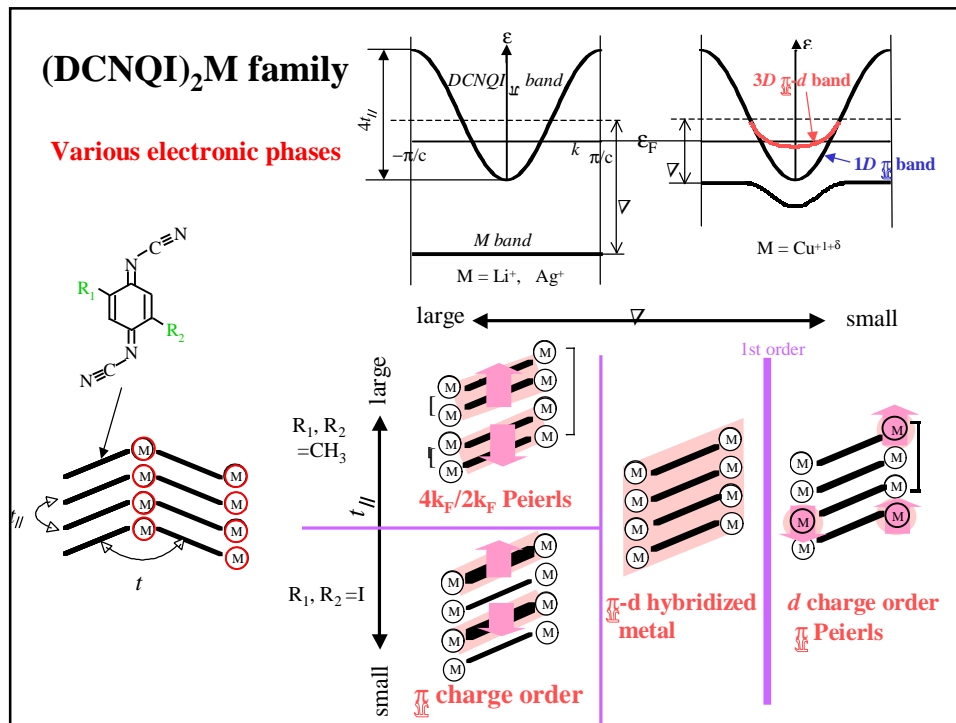
Controlled by lattice symmetry

K. Kanoda
 T. Itou
 K. Ohno *Applied Physics, Univ. Tokyo*
 S. Arakawa *Univ. Tokyo*
 K. Kodama
 K. Miyagawa
 H. Taniguchi *Saitama U.*
 A. Kawamoto *Hokkaido U.*
 K. Murata *Osaka City U.*
 T. Matsumoto *NIMS*
 K. Hiraki *Gakushuin Univ.*
 T. Takahashi
 M. Tamura *Riken*

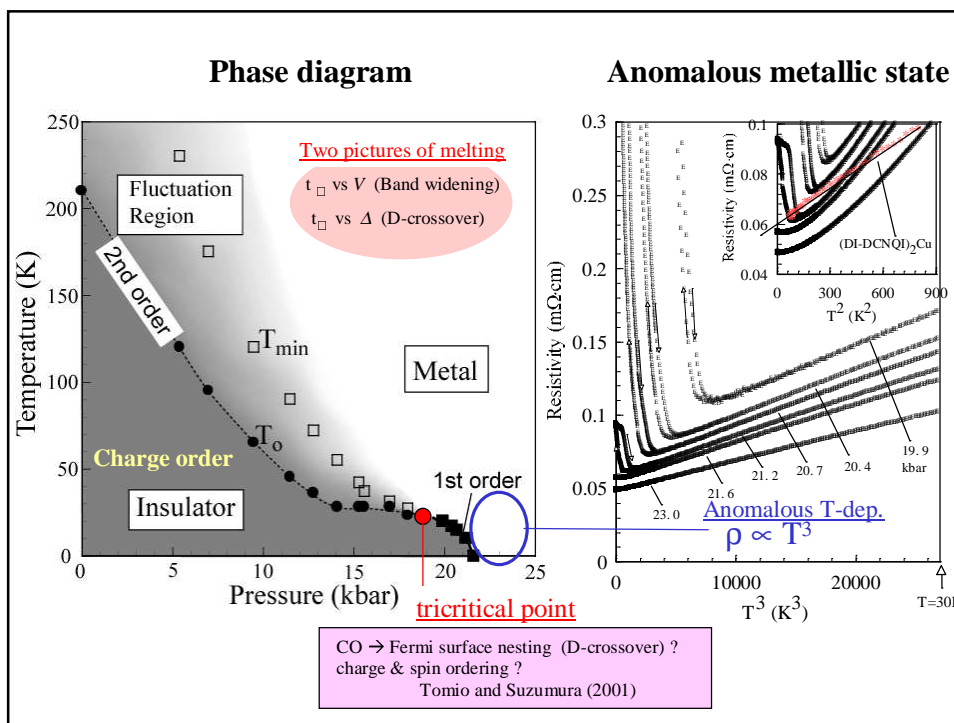
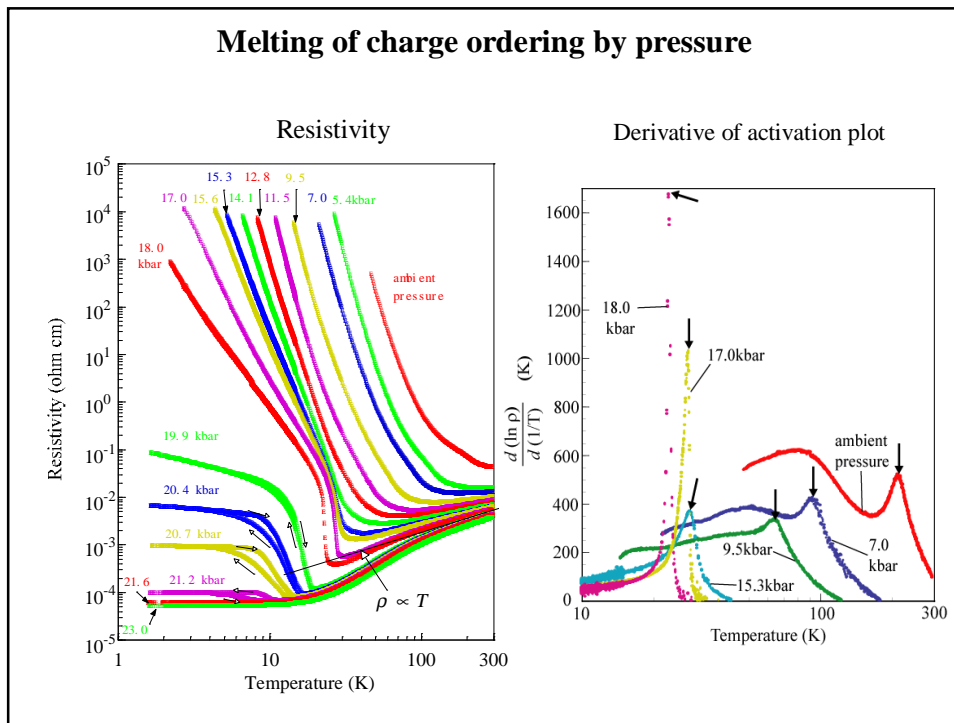
(DCNQI)₂M □□M=Ag



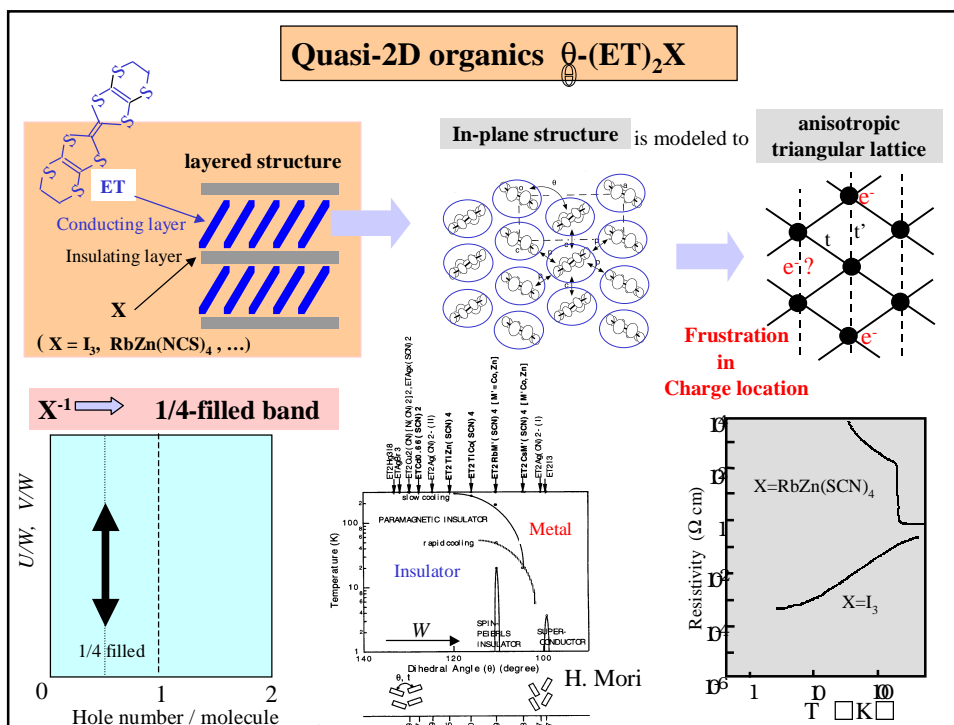
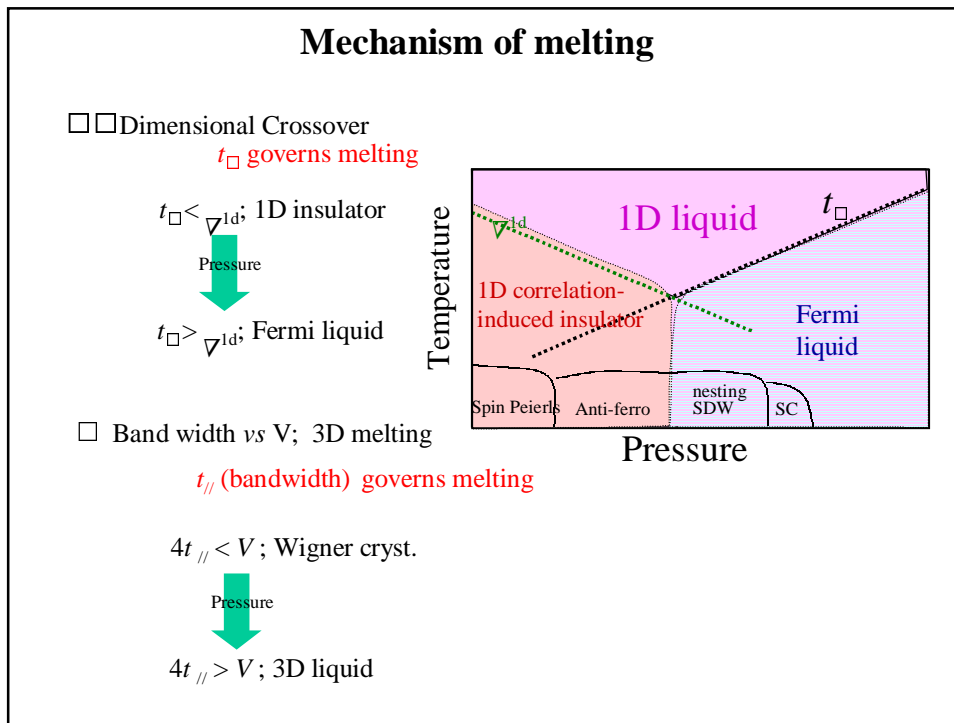
Discussion on 2d Organics with Triangular Lattice Structure



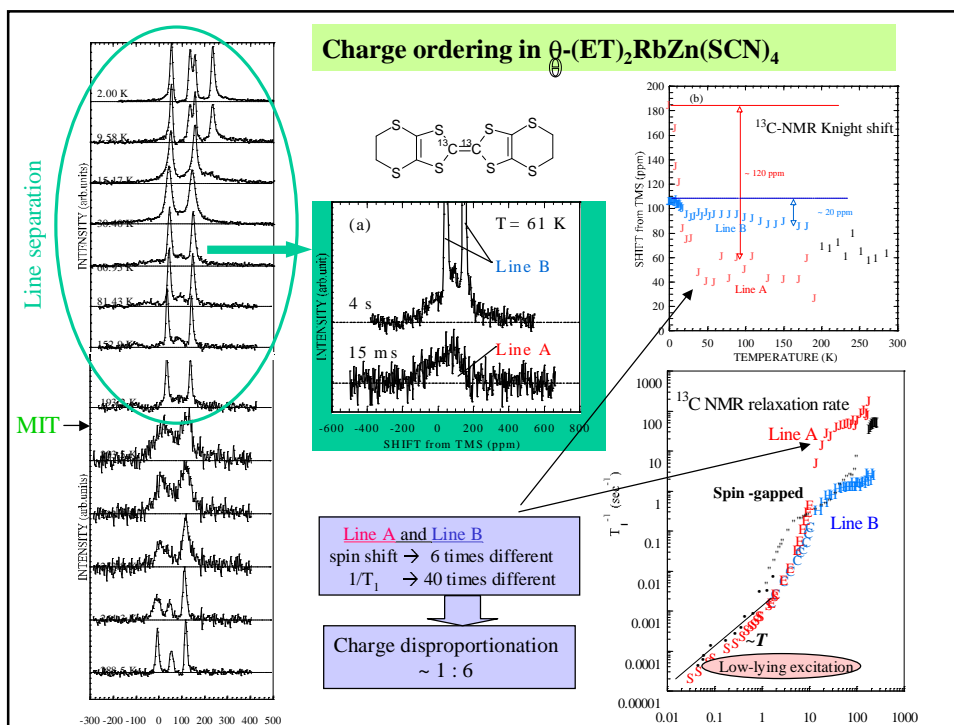
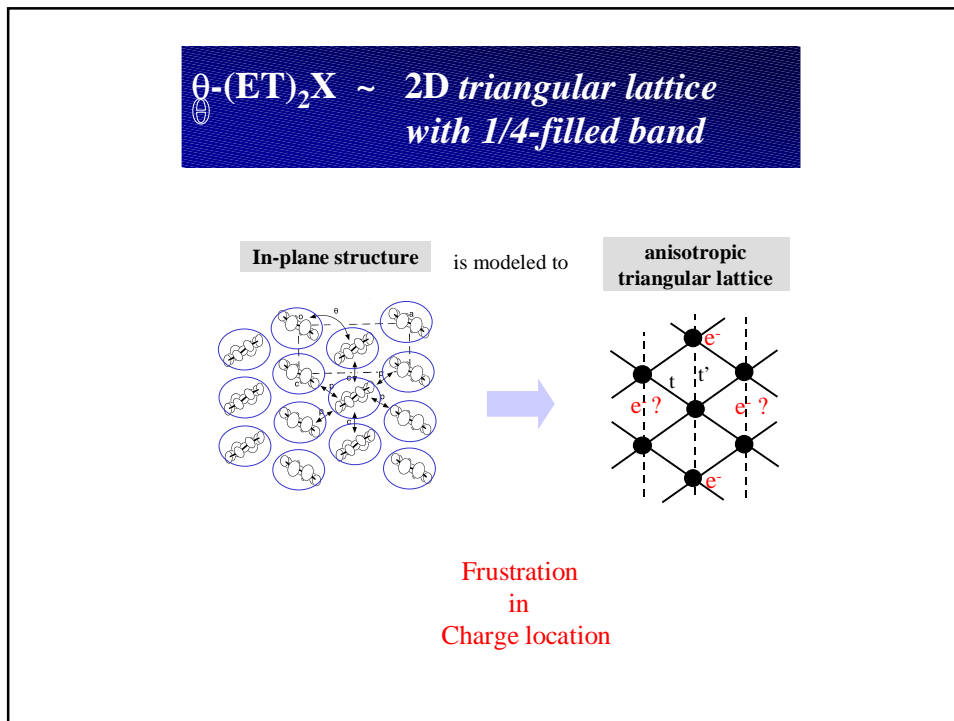
Discussion on 2d Organics with Triangular Lattice Structure



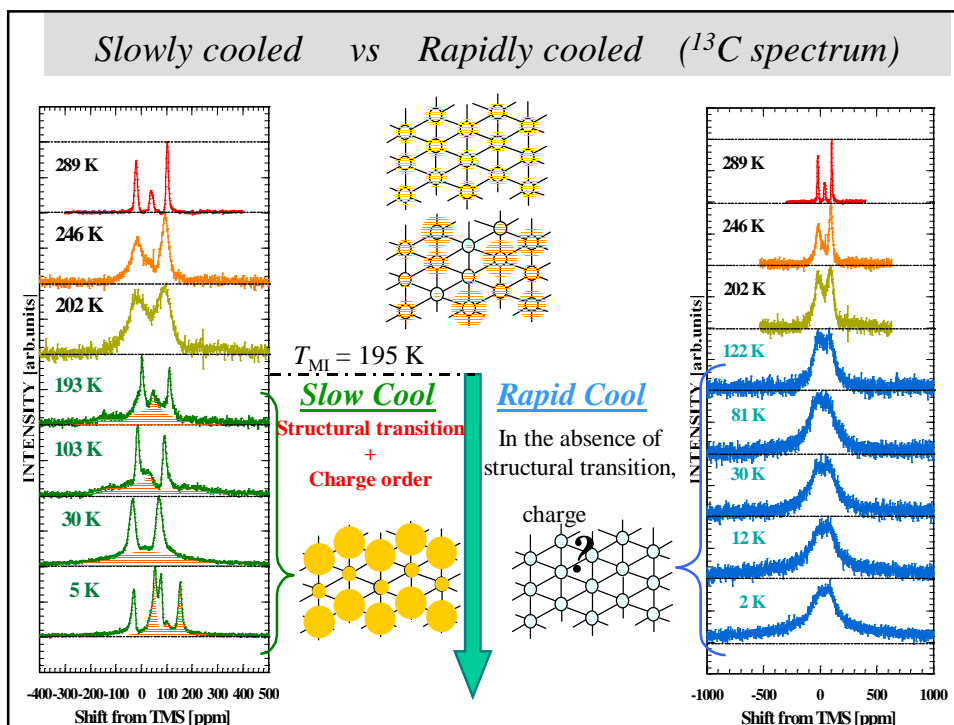
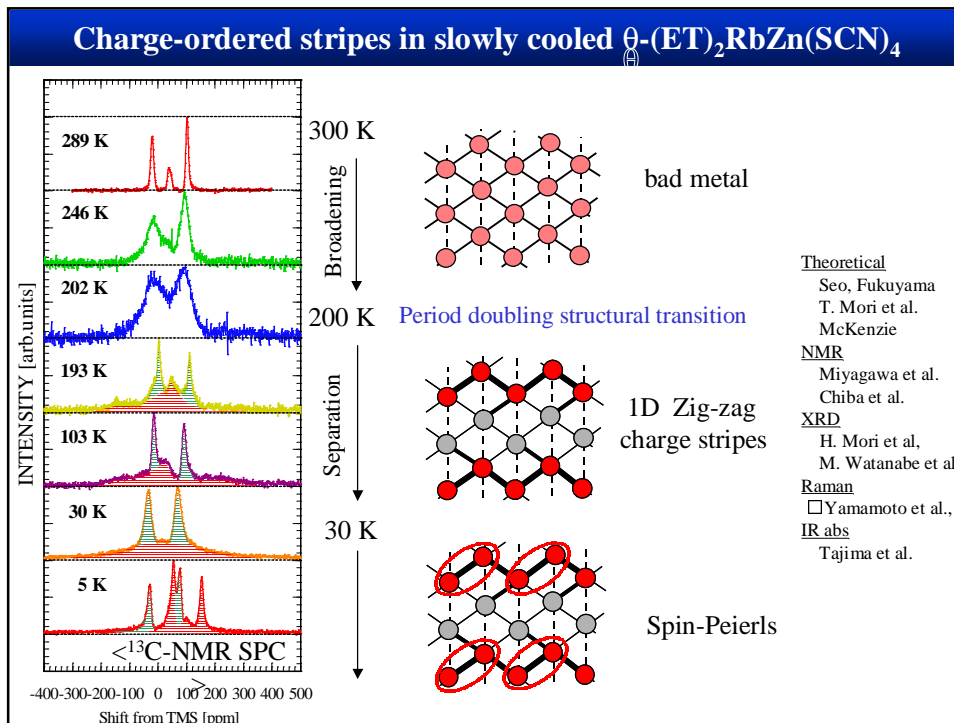
Discussion on 2d Organics with Triangular Lattice Structure



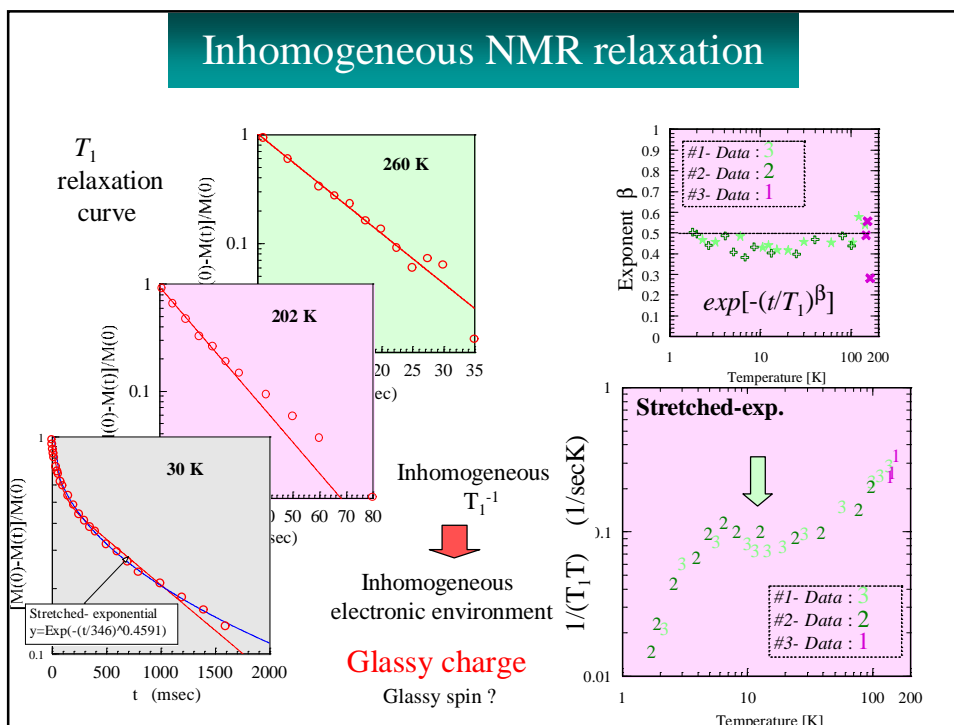
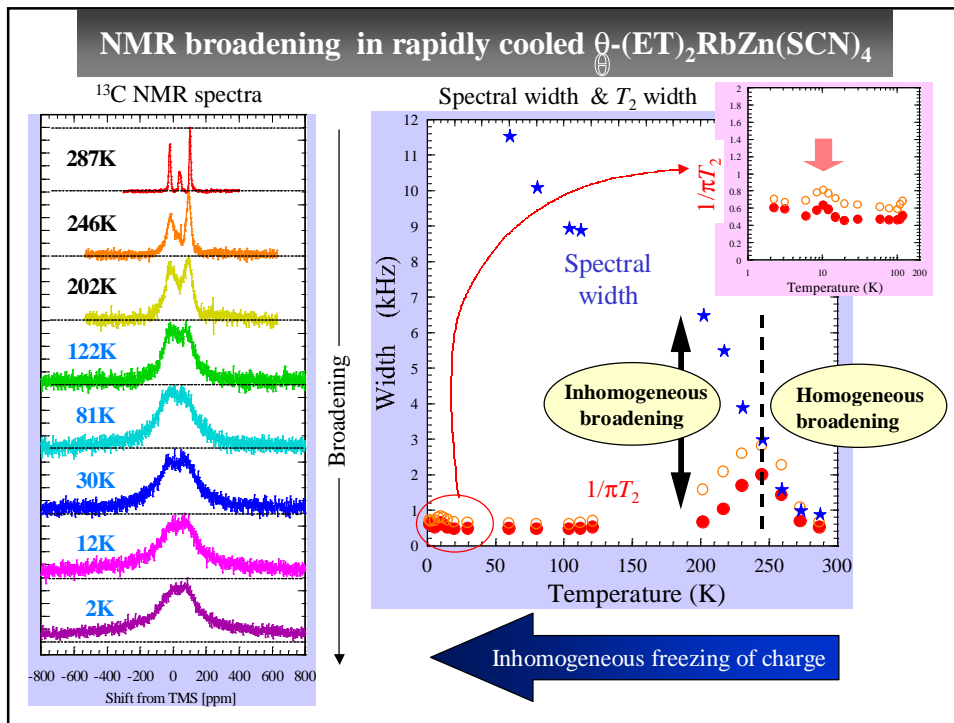
Discussion on 2d Organics with Triangular Lattice Structure



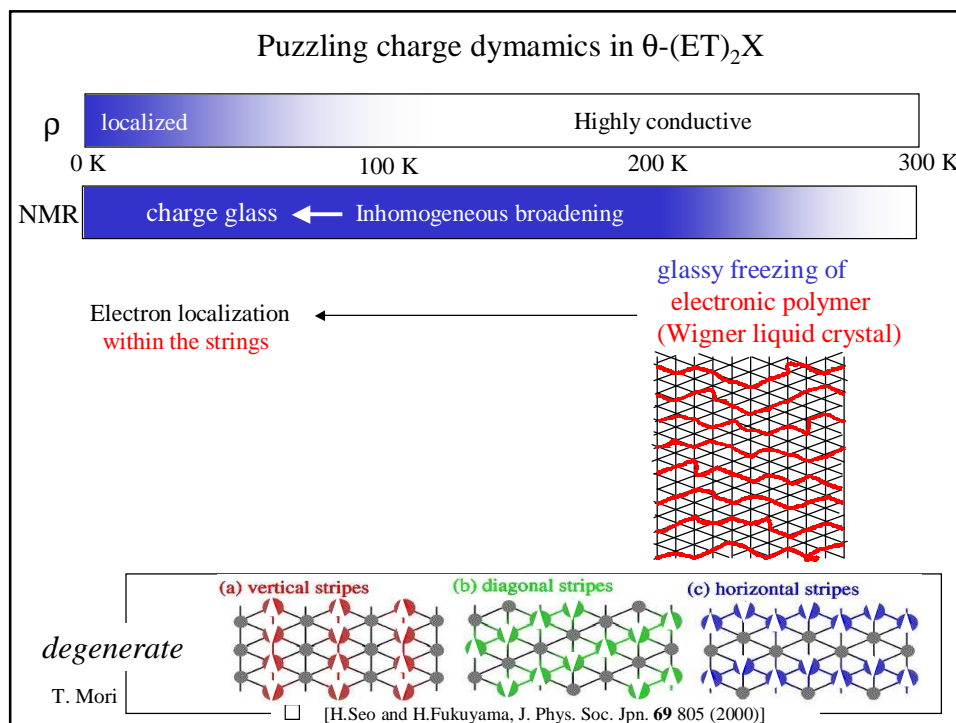
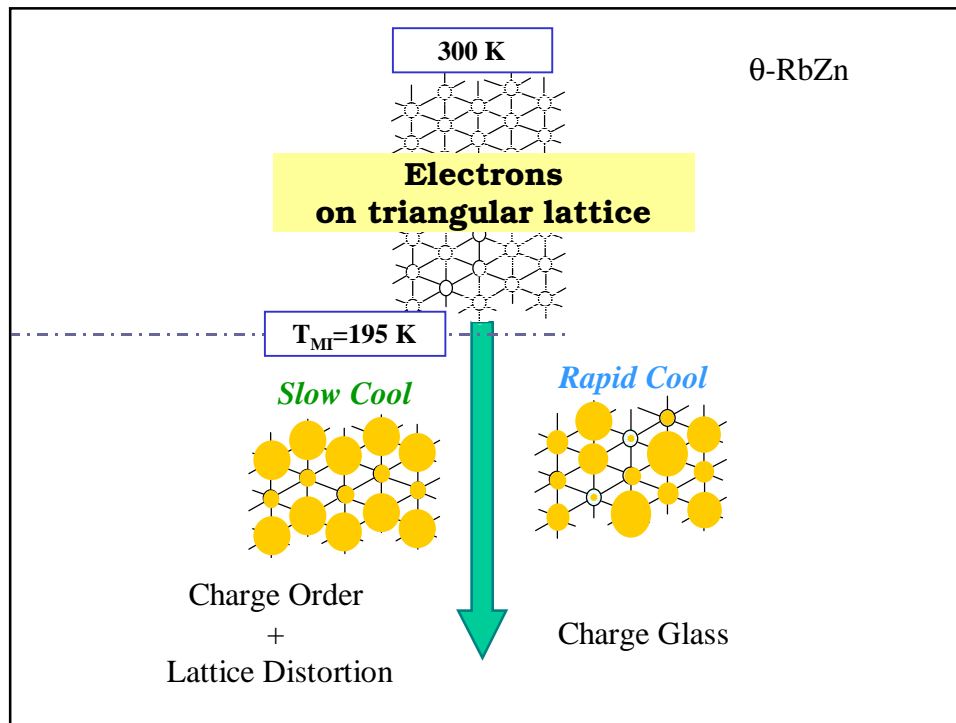
Discussion on 2d Organics with Triangular Lattice Structure



Discussion on 2d Organics with Triangular Lattice Structure



Discussion on 2d Organics with Triangular Lattice Structure



Charge on triangular lattice
in θ -(ET)₂MZn(SCN)₄

Electronic polymer

Order glass

Charge-lattice coupling

quantum melting