

Controlling octahedron rotation

김창영 교수님.

wonshik kyung

$\text{Ca}_{2-x}\text{Sr}_x\text{RuO}_4$ S. Nakatsuji PRL 84, 2666 (2000)

Anisimov EPJB 25, 191 (2002)

H.-J. Noh PRB (2005)

Sr_2RhO_4 rotation angle $\sim 10^\circ$

Sr_2RhO_4 B. J. Kim PRL 97, 106401 (2006)

Rotation 이 있으면 $d_{x^2-y^2}$ 과 d_{xy} 가 mixing이
일어난다.

E. Ko PRL 98, 226401 (2007)

Electric field

Sr_2RuO_4 : Y. Maeno nature 372, 532 (1994)

R. Matzdorf Science 289, 746 (2000)

PRL 110, 097004 (2013)

[Electron doping effect
[surface electric field effect.

dose \rightarrow rotation.

PRL 115, 176402 (2015)

Y.K. Kim Science. Scientific report
(2015)

Ru, Rh : metal Ir : Insulator.