



Weekly Seminar

Time: 4:00pm, Feb. 26, 2014 (Wednesday)

2014 2 26

4:00

Venue: Room 607, Conference Room A, Science Building 5

607

3d

3d 4d 5d

5d

5d

Slater

NaOsO₃

Os-O-O-Os

Ca₃LiOsO₆

LiOsO₃

BaOsO₃

d

d

References:

Y.G. Shi, et al., A ferroelectric-like structural transition in a metal, Nat. Mater., 12, 1024, 2013.

Y.G. Shi, et al., High-Pressure Synthesis of 5d Cubic Perovskite BaOsO₃ at 17 GPa: Ferromagnetic Evolution over 3d to 5d Series, J. Chem. Am. Soc., 135, 16507, 2013.

S. Calder, et al., Magnetically Driven Metal-Insulator Transition in NaOsO₃, Phys. Rev. Lett. 108, 257209, 2012.

Y.G. Shi, et al., Crystal Growth and Structure and Magnetic Properties of the 5d Oxide Ca₃LiOsO₆: Extended Superexchange Magnetic Interaction in Oxide, J. Chem. Am. Soc., 132 (24), 8474, 2010.

Y.G. Shi, et al., Continuous metal-insulator transition at 410 K of the 5d antiferromagnetic perovskite NaOsO₃, Phys. Rev. B 80, 161104(R), 2009.

2006

2006 - 2010

NIMS

2010 9

Nat. mater.

JACS

PRL

PRB

SCI

50

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