

無機化学セミナー

Bonding, Reactivity, and Photophysics of Some Ruthenium and Osmium Complexes

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◆ 日時: 11月29日 (金) 15:00~16:15

◆ 場所: 自然系学系B棟215室

Abstract: Our group has initiated a program to study the coordination chemistry, reactivity, and photophysics of low-valent ruthenium and osmium complexes. In this seminar, I will present our findings on the following studies:

- (1) reactivity of nitrosonium ion (NO^+) towards a ruthenium–aryl bond;
- (2) assigning oxidation state to ruthenium complexes bearing nitrosoarene–pyridine hybrid ligands;
- (3) structural determination of ruthenium-alkoxycarbene complexes supported by salen-type ligands;
- (4) isolation of ruthenium–indolizine complexes and its insight into metal-induced cycloisomerization of propargylic pyridines;
- (5) photophysical studies on ruthenium- and osmium-bipyridine complexes with N-heterocyclic carbene (NHC)-based pincer ligands

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