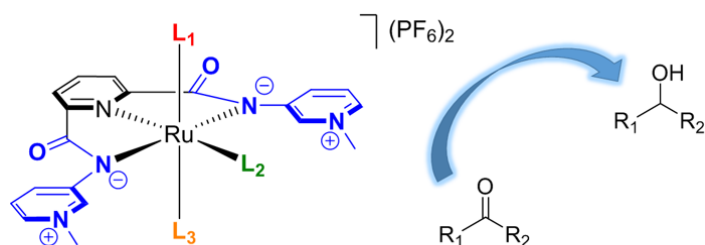


Pincer-type Pyridylidene Amide (PYA) Ruthenium Complexes in Transfer Hydrogenation CatalysisP. Melle¹, M. Albrecht^{1*}¹Departement für Chemie und Biochemie, Universität Bern, Freiestrasse 3, CH-3012 Bern, Switzerland

Ligand systems that offer flexibility and assist the metal in catalytic bond making and breaking have received much attention recently.¹ Pyridylidene amide (PYA) ligands have been shown to be electronically flexible N-donor sites and have successfully been used for several applications in homogeneous catalysis, such as in challenging water oxidation and transfer hydrogenation.^{2,3} Here we will present new pincer-type ligands based on the well-known pyridine-2,6-dicarboxamide scaffold,⁴ now containing two PYA moieties. The N₃-pincer cavity allows for a facile synthesis of different ruthenium(II) complexes which can be further modified in an easy one step reaction (Fig. 1). We will discuss the influence of different PYA ligand systems and the variation of spectator ligands on the electrochemical and photochemical properties of the complexes and on their catalytic activity.

**Figure 1. General structure for ruthenium PYA complexes**

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