Axial Chirality in Square-Planar Metal Complexes

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Metal complexes with a square-planar arrangement of ligands are frequently found for the late Transition Metals. The incorporation of $C_1$-symmetrical planar ligands (e.g. nucleophilic carbenes) in an orientation perpendicular to the square-plane of the complex leads to various isomers which are characterized by means of an axis of chirality employing the well established \textit{Cahn-Ingold-Prelog R/S}-nomenclature.

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