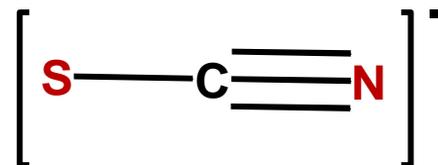
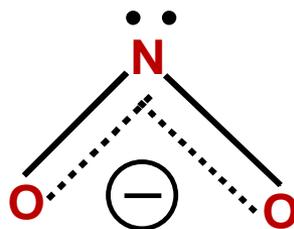
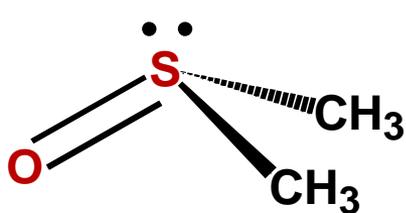


ESPERIENZA Jolly

Sintesi di complessi di metalli di transizione con **leganti ambidentati**: il dimetil solfossido e lo ione nitrito

Def.: si definiscono **ambidentati** quei leganti che presentano **due atomi potenzialmente donatori**.

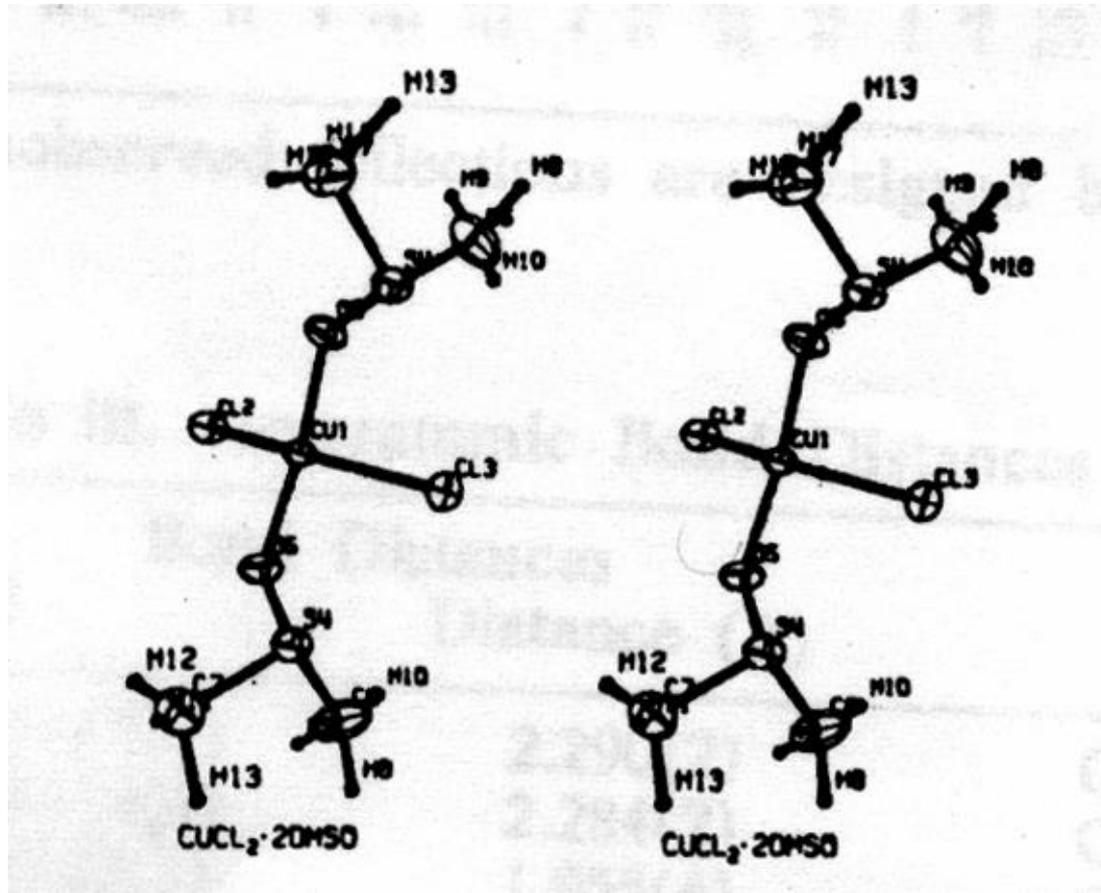
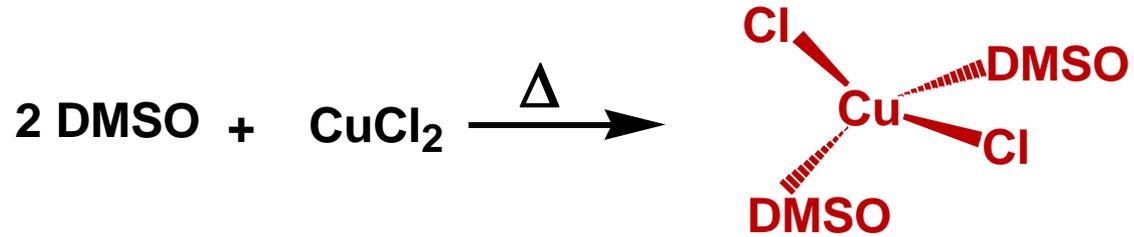


Fattori **elettronici** o **sterici** o **entrambi** indirizzano la coordinazione attraverso uno dei due atomi donatori.

Si possono fare delle previsioni sull'atomo donatore utilizzando la teoria **HARD and SOFT, ACIDS and BASES**.

Spettroscopia **IR** allo stato **solido**, **UV-Vis.** ed **¹H NMR** in **soluzione** sono diagnostiche per riconoscere il modo di legame dei leganti ambidentati.

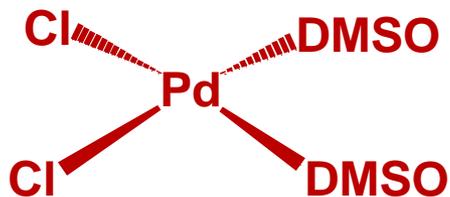
Sintesi di $[\text{CuCl}_2(\text{DMSO})_2]$



Geometria a sella, d^9

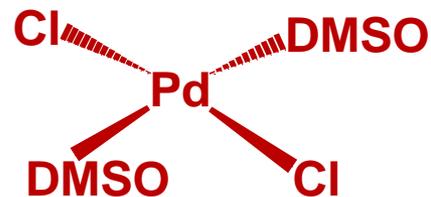
paramagnetico

Studio di $[\text{PdCl}_2(\text{DMSO})_2]$

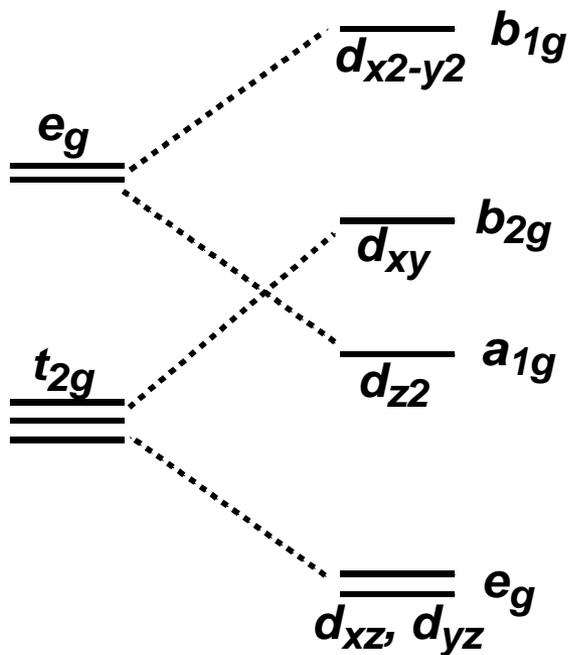


cis

o



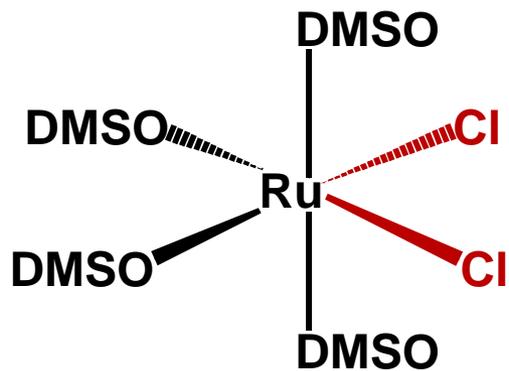
trans



Planare quadrato
 d^8

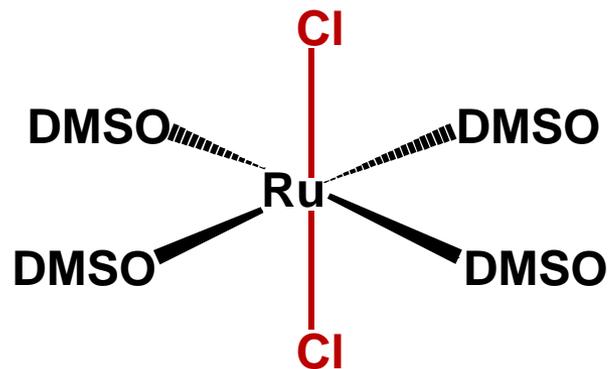
diamagnetico

Studio di $[\text{RuCl}_2(\text{DMSO})_4]$

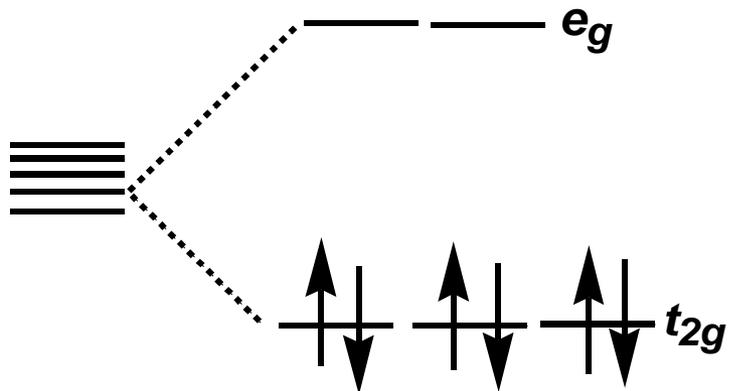


cis

o



trans



Ottetraedro, d^6 , basso spin

diamagnetico