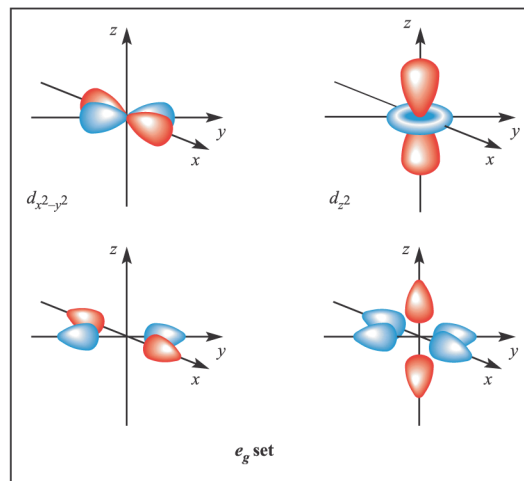
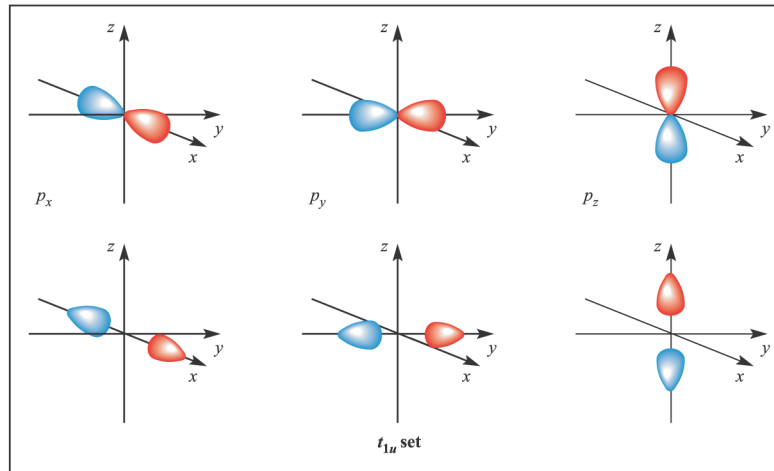
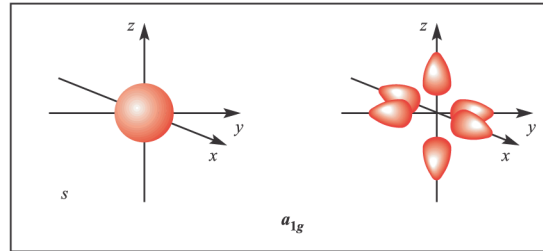


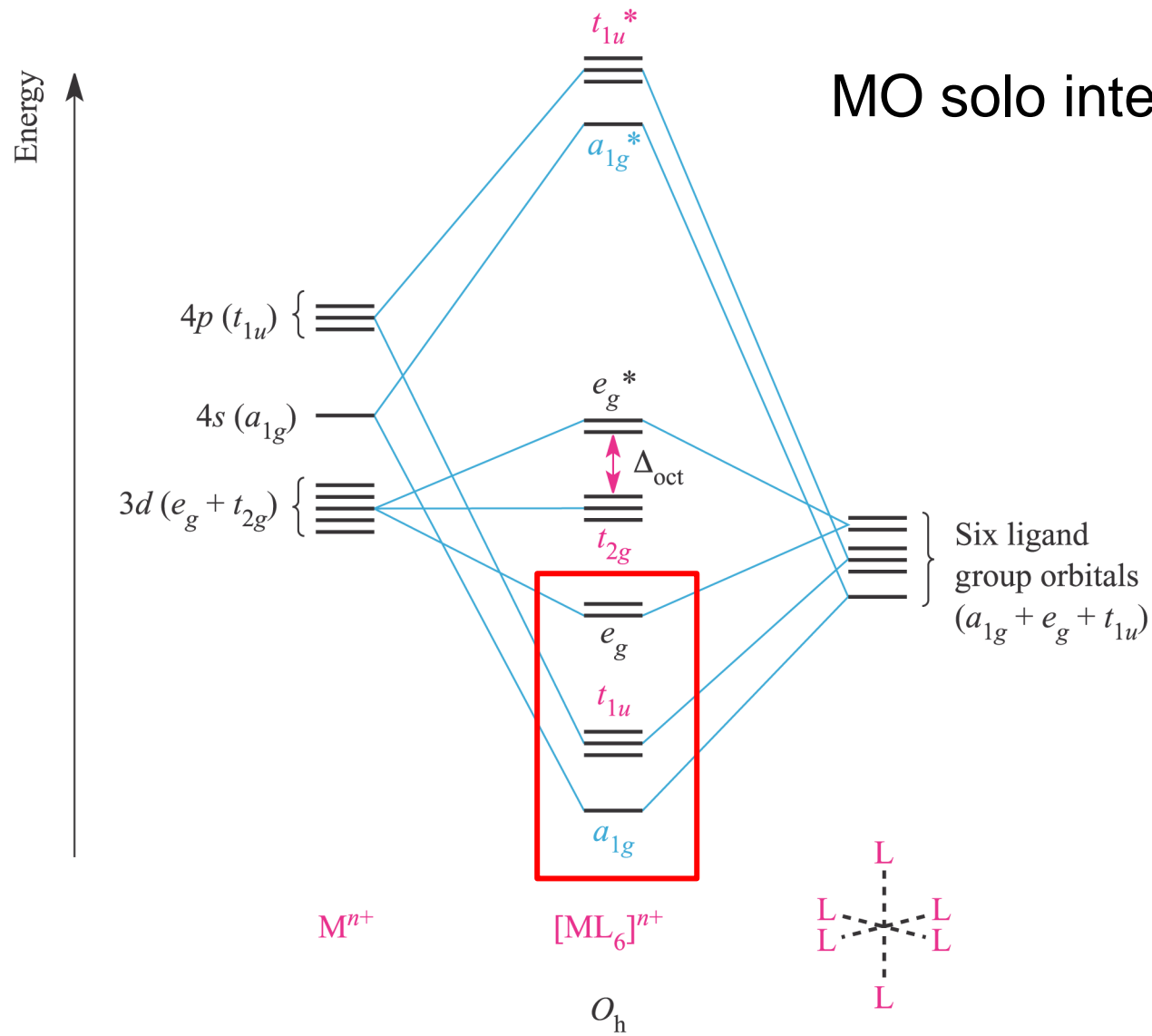


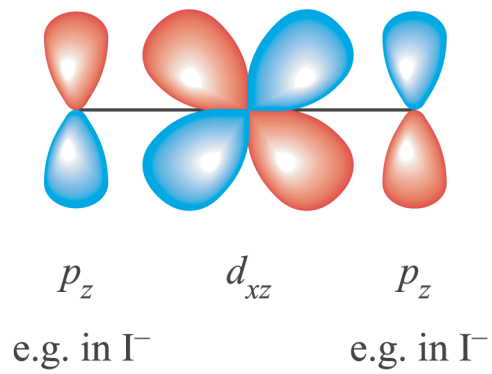
O_h ($m\bar{3}m$)	E	$8C_3$	$6C_2$	$6C_4$	$3C_2$ ($= C_4^2$)	i	$6S_4$	$8S_6$	$3\sigma_h$	$6\sigma_d$	
A _{1g}	1	1	1	1	1	1	1	1	1	1	$x^2 + y^2 + z^2$
A _{2g}	1	1	-1	-1	1	1	-1	1	1	-1	
E _g	2	-1	0	0	2	2	0	-1	2	0	$(2z^2 - x^2 - y^2,$ $\sqrt{3}(x^2 - y^2))$
T _{1g}	3	0	-1	1	-1	3	1	0	-1	-1	(R_x, R_y, R_z)
T _{2g}	3	0	1	-1	-1	3	-1	0	-1	1	(xy, xz, yz)
A _{1u}	1	1	1	1	1	-1	-1	-1	-1	-1	
A _{2u}	1	1	-1	-1	1	-1	1	-1	-1	1	
E _u	2	-1	0	0	2	-2	0	1	-2	0	
T _{1u}	3	0	-1	1	-1	-3	-1	0	1	1	(x, y, z)
T _{2u}	3	0	1	-1	-1	-3	1	0	1	-1	

LGO di $[\text{Co}(\text{NH}_3)_6]^{3+}$



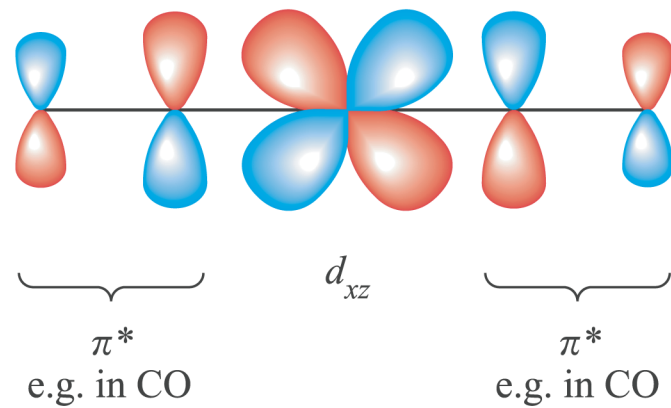
MO solo interazioni σ





(a)

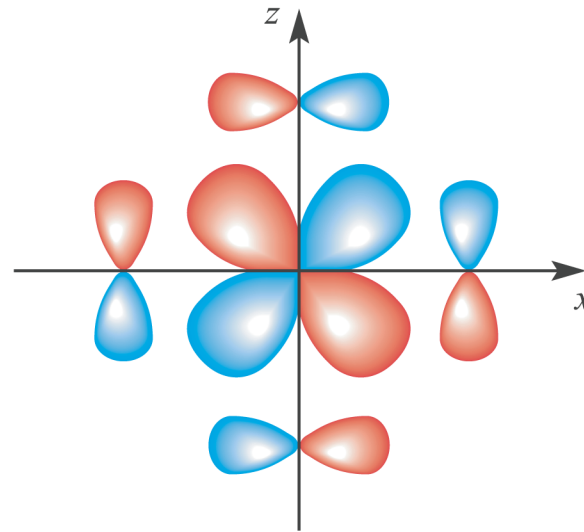
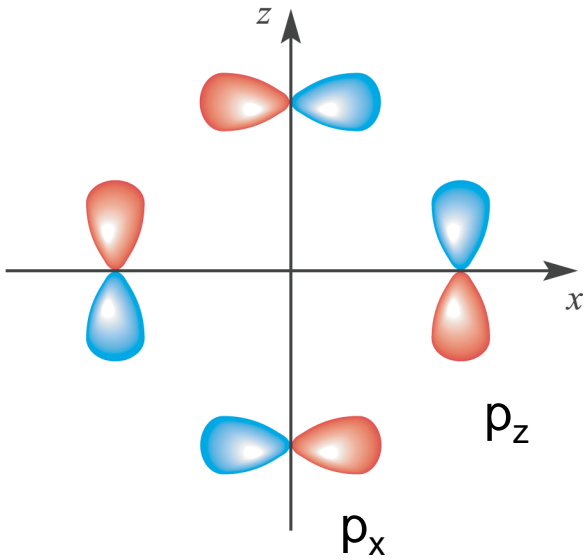
π -donatore



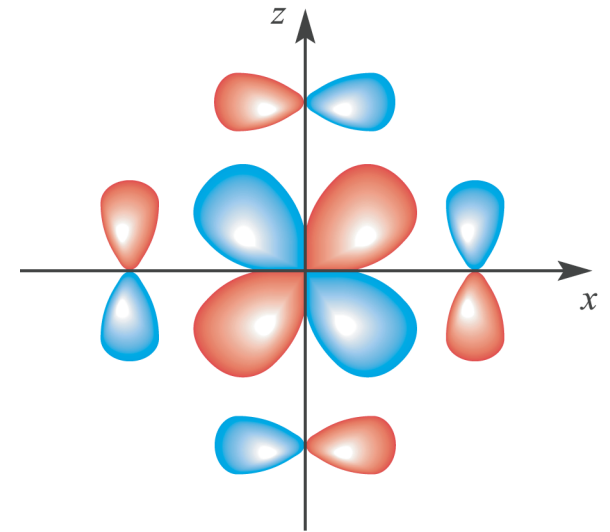
(b)

π -accettore

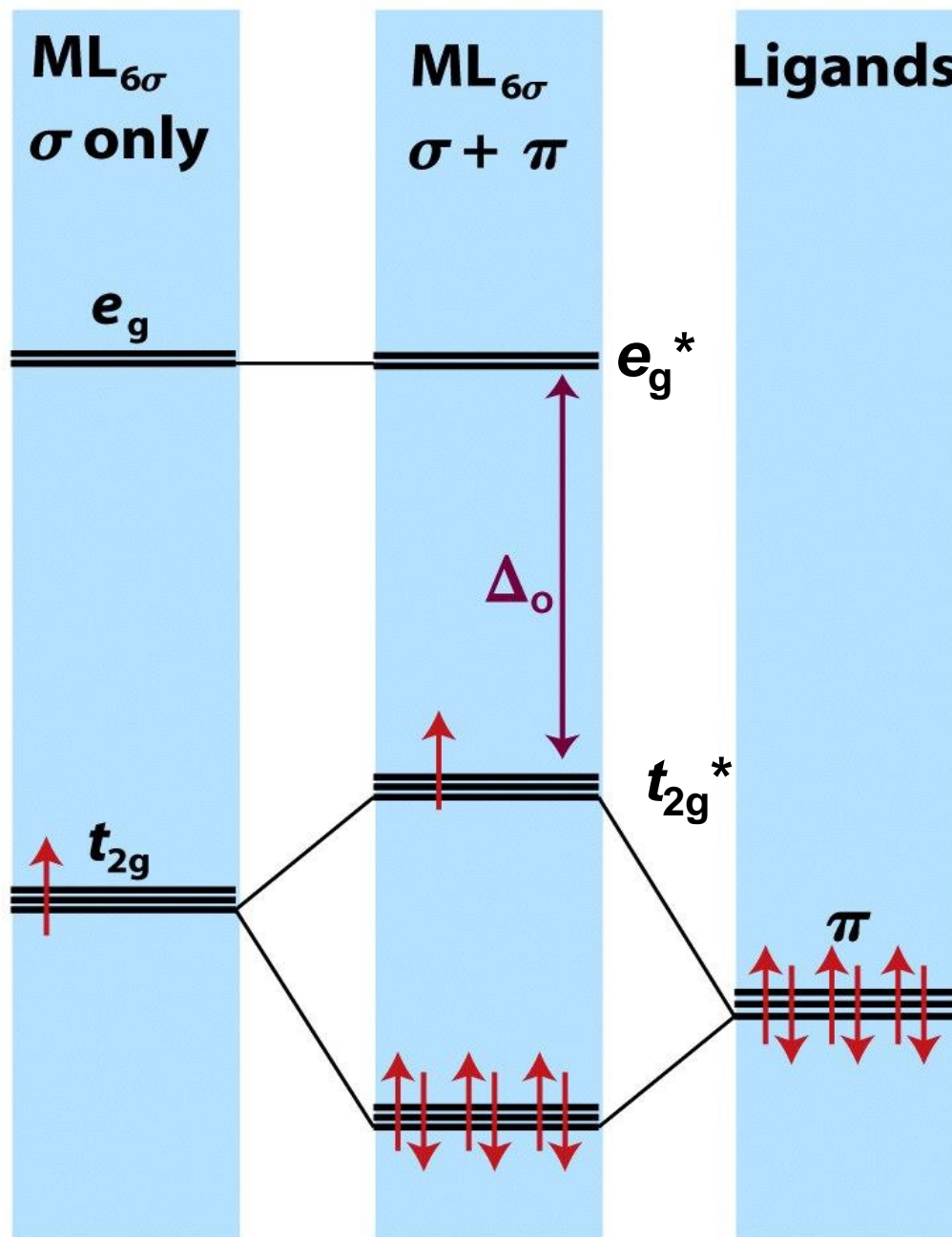
LGO π in un piano di un ottaedro



combinazione legante

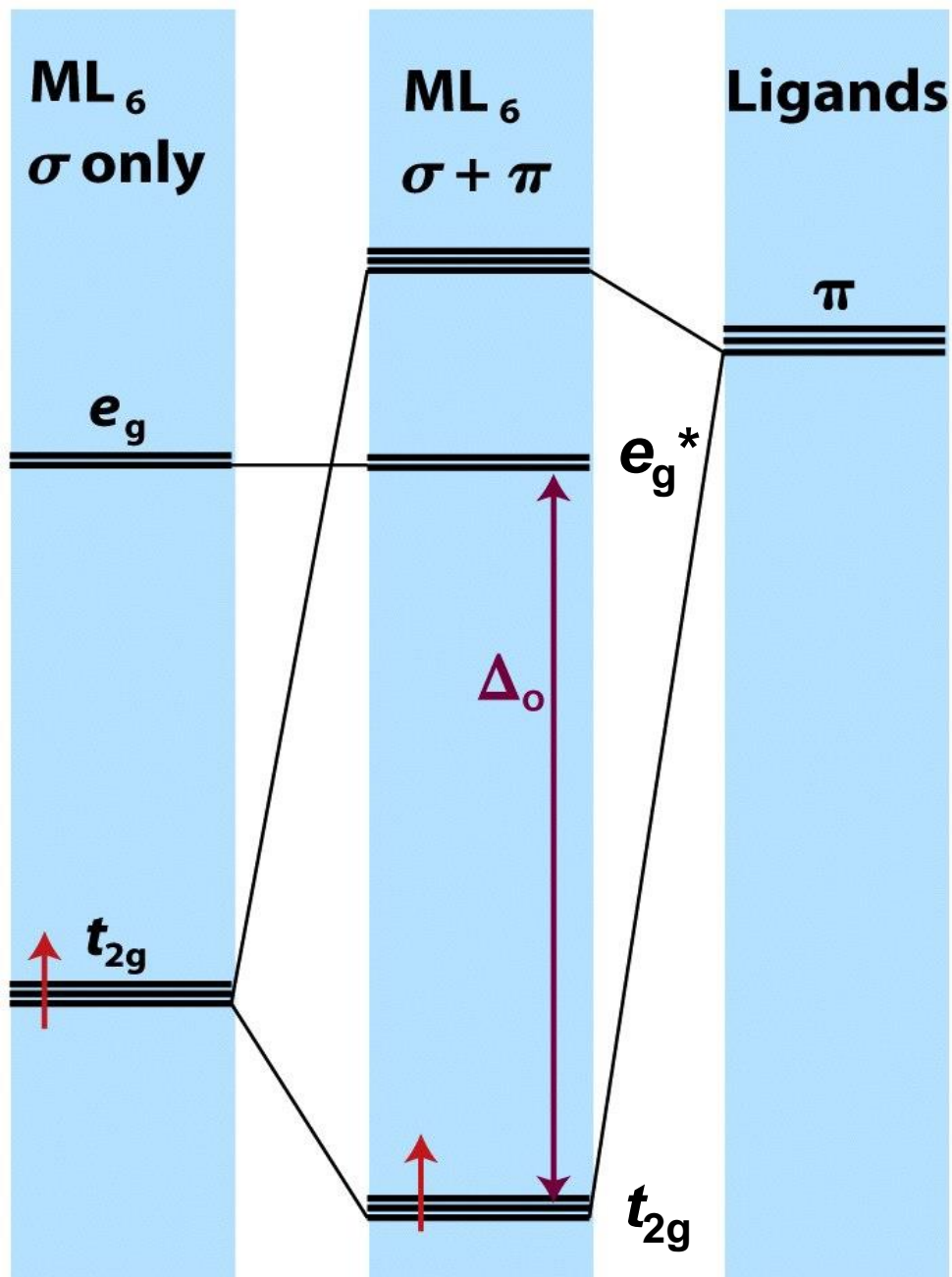


combinazione antilegante

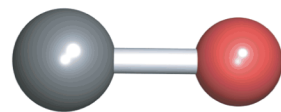
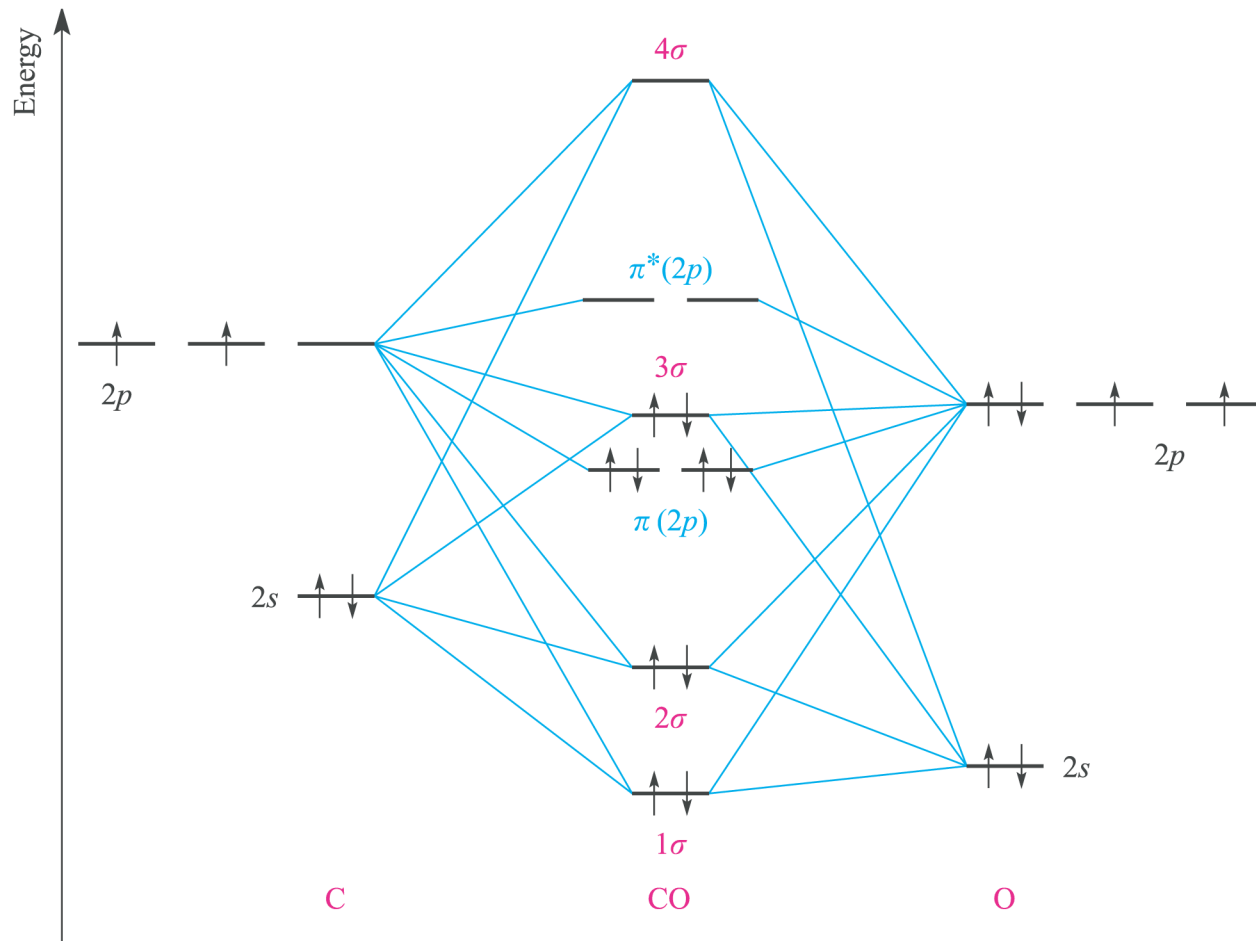


π -donatore
e.g. $[\text{CoF}_6]^{3-}$

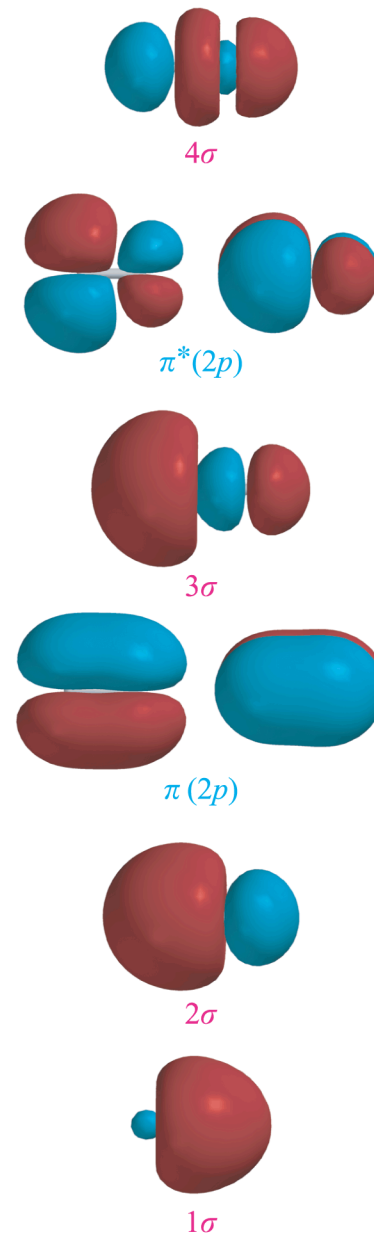
LGO t_{2g}

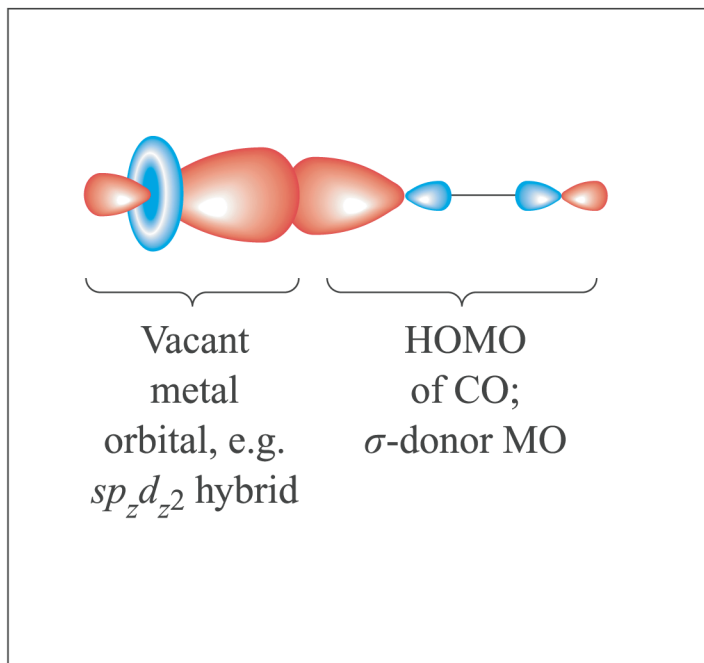
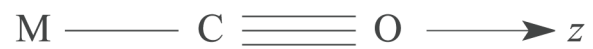


π -accettore

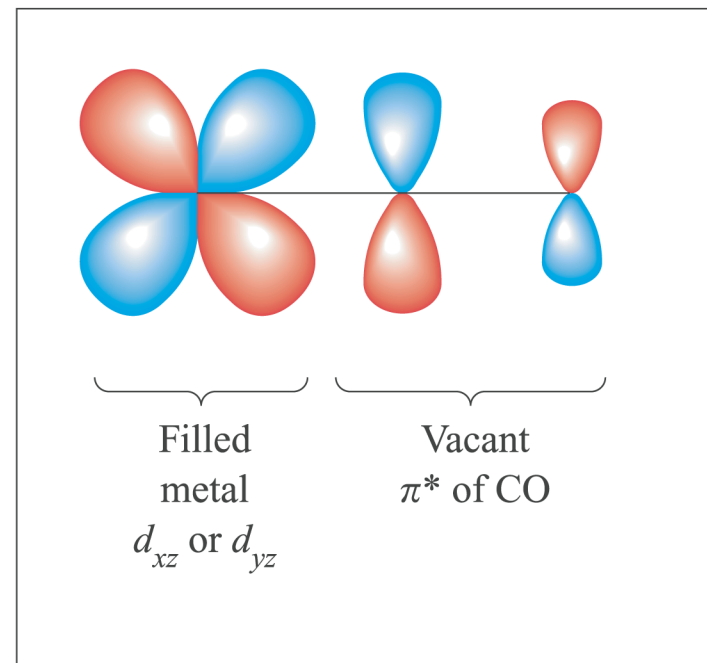


(b)



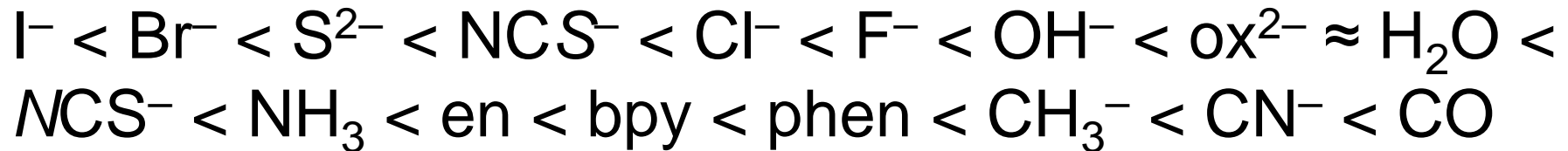


CO-to-M donation
(a)



M-to-CO back-donation
(b)

Serie spettrochimica dei leganti



Campo debole

Campo forte

π donatori < π donatori deboli < nessun contributo π < π accettori