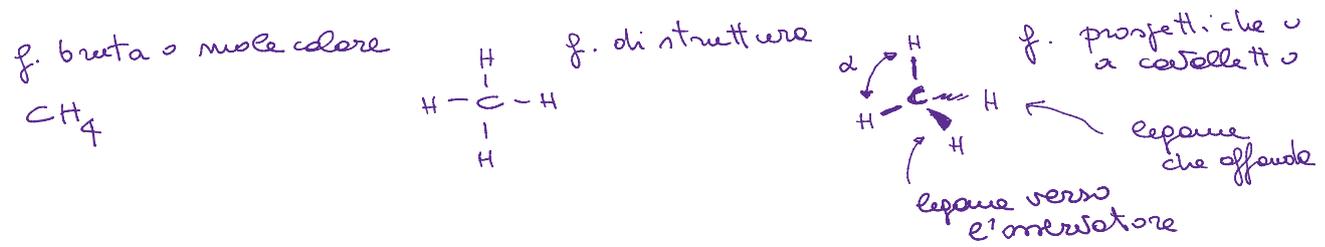


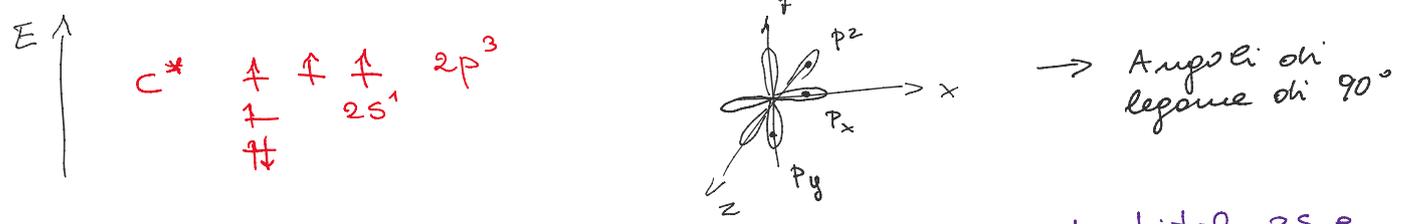
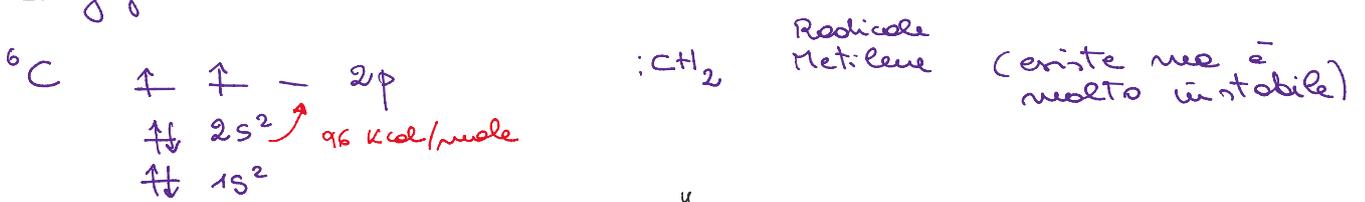
I PARZIALE	Sabato 12 Aprile 2025 ore 9.00	Aule P1 P2 P3
II PARZIALE	Mercoledì 17 Giugno 2025 ore 9.00	P300 P1 P2 P3
I APPELLO ORALE	Mercoledì 24 Giugno 2025 ore 9.00	OB
II APPELLO ORALE	Venerdì 7 Luglio 2025 ore 9.00	P1 + P2
	Venerdì 14 Luglio 2025 ore 9.00	P300
III APPELLO	Mercoledì 16 Settembre '25 ore 9.00	P300
	SOLO ORALE	
IV APPELLO	Febbraio 2026	

IBRIDAZIONE o IBRIDIZZAZIONE del C

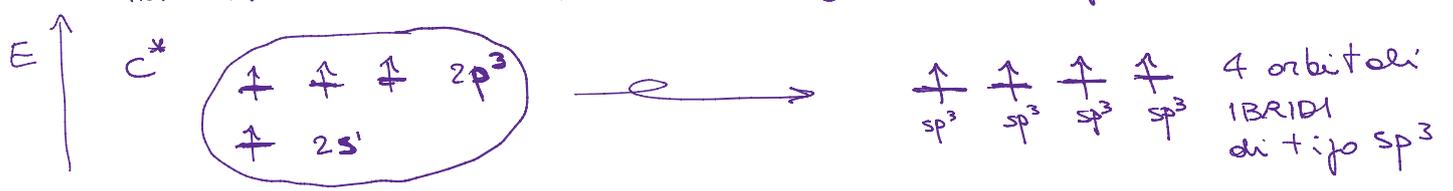


legami C-H tutti uguali $l = 1,1 \text{ \AA}$ ($1 \text{ \AA} = 10^{-10} \text{ m}$)
 $F = 104 \text{ kcal/mole}$
 $\alpha = 109,5^\circ$ (Angolo tetraedico)

Configurazione elettronica del C nel suo stato fondamentale

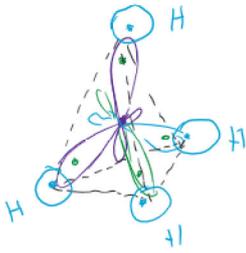


IBRIDAZIONE di tipo sp^3 (partecipano l'orbitale 2s e 3 orbitali 2p)

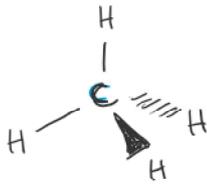


$$\Psi_{sp^3} = c_1 \Psi_{2s} + c_2 \Psi_{2p_x} + c_3 \Psi_{2p_y} + c_4 \Psi_{2p_z}$$

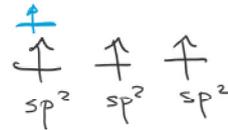
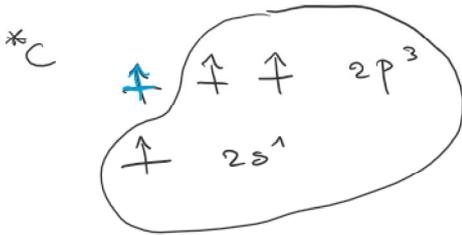
∞ sp^3
 $\frac{1}{4}$ CARATTERE S
 $\frac{3}{4}$ CARATTERE P



Il C è al centro di un tetraedro regolare e i 4 orbitali ibridi puntano verso i vertici del tetraedro



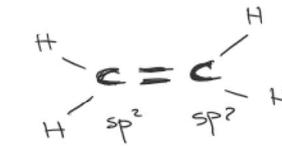
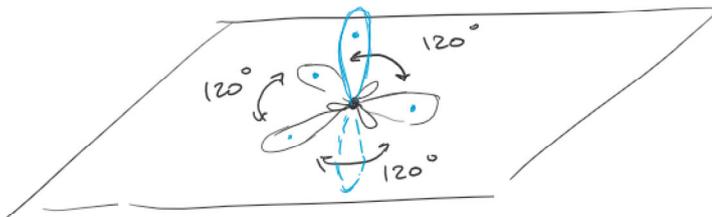
IBRIDAZIONE di tipo sp^2 $2s + 2$ degli orbitali $2p$



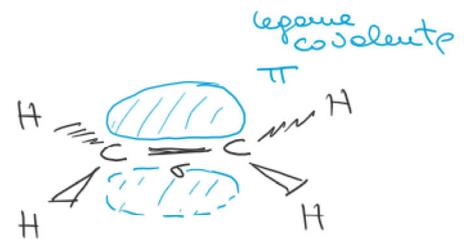
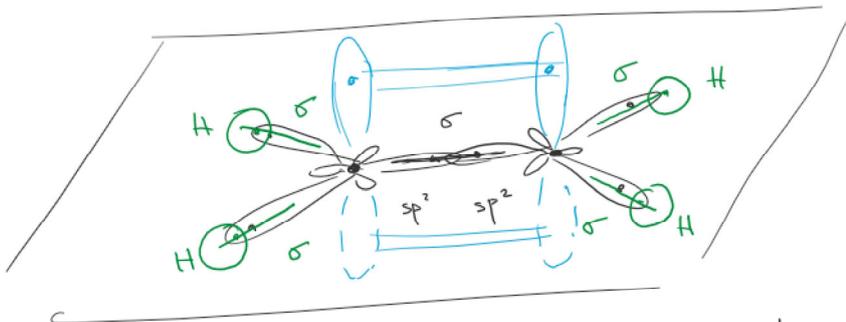
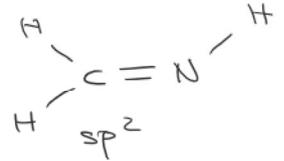
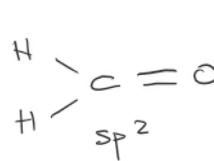
3 orbitali ibridi di tipo sp^2



$\frac{1}{3}$ CARATTERE S
 $\frac{2}{3}$ CARATTERE P

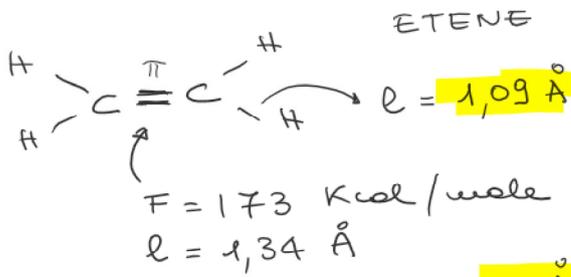


ETILENE o ETENE



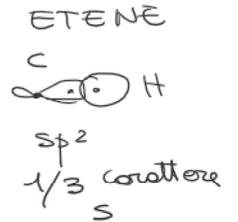
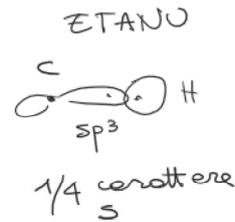
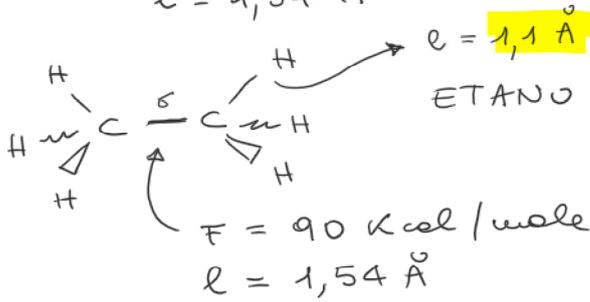
legame σ : ha la massima densità elettronica lungo la congiungente i nuclei



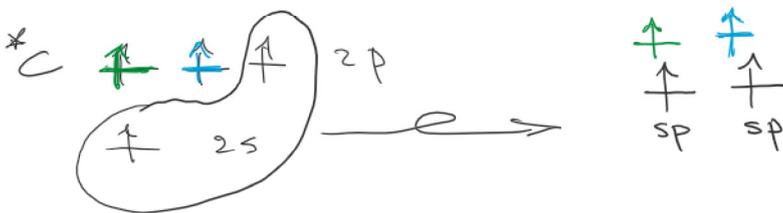


lungo la congiungente
i nuclei

(Alle componenti π spettano
65 Kcal/mole)

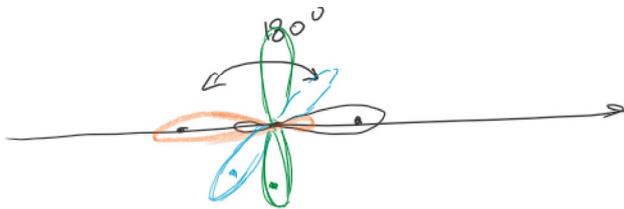


IBRIDAZIONE di tipo sp



2 orbitali
ibridi
di tipo sp

Maggior
carattere
sferico
significa
orbitale
più vicino
al nucleo
e più corto



$1/2$ carattere s

$1/2$ carattere p

Il C è sp quando coinvolto
in legami TRIPLI

