







CONFIGURAZIONE ELETTRONICA:



Serve per vedere  come sono distribuiti gli elettroni 


dell'atomo  nei vari livelli e sottolivelli energetici  .

L'atomo  è formato da un nucleo con caratteristiche positive

 e attorno a esso si distribuiscono invece cariche negative

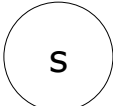
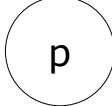
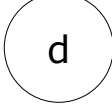
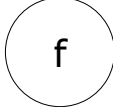
 di diversi livelli.

Più ci si allontana dal nucleo, più è alto  il livello di energia 

I livelli di energia  vengono rappresentati su una scala di numeri che variano da 1 a 7.

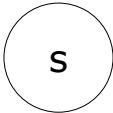
I sottolivelli energetici  vengono invece rappresentati dalle

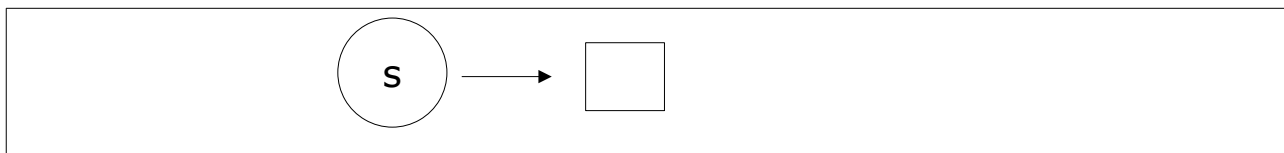
lettere:

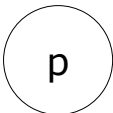
   

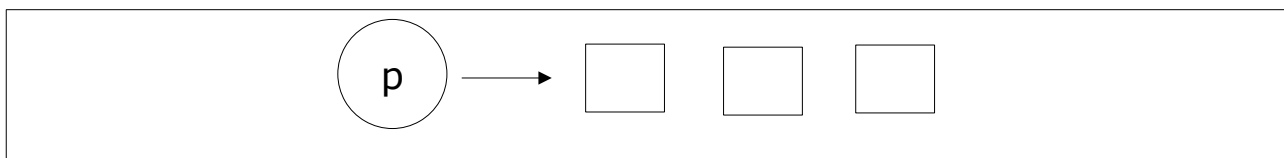
Queste lettere rappresentano gli orbitali. Gli orbitali graficamente

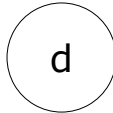
sono dei quadratini  .

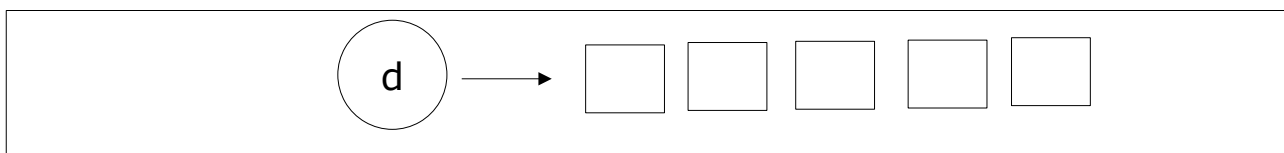
- L'orbitale  viene rappresentato da 1 quadratino.



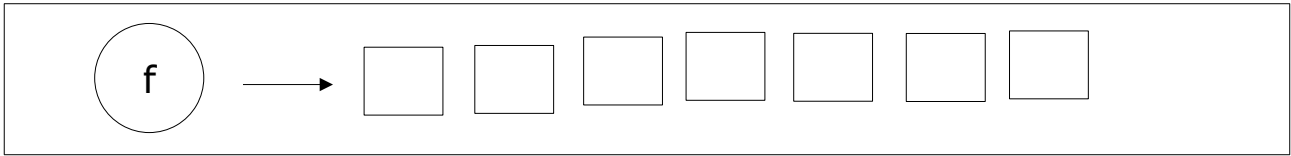
- L'orbitale  viene rappresentato da 3 quadratini.



- L'orbitale  viene rappresentato da 5 quadratini.

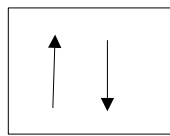


- L'orbitale f viene rappresentato da 7 quadratini.

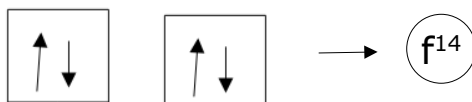
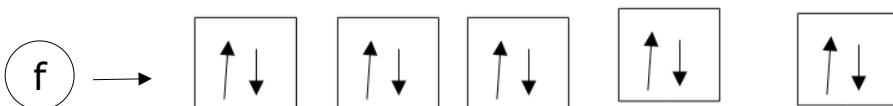
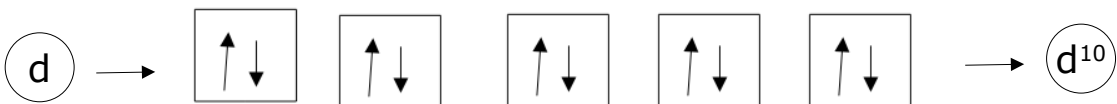
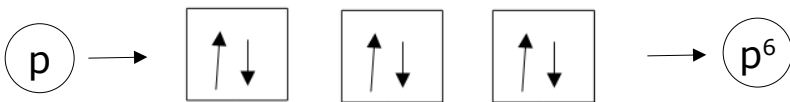
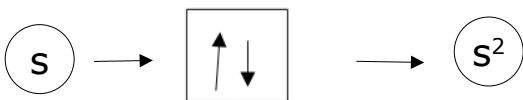


All'interno di ogni si possono avere massimo 2 elettroni

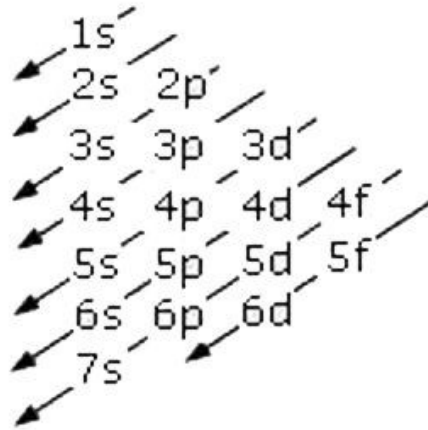
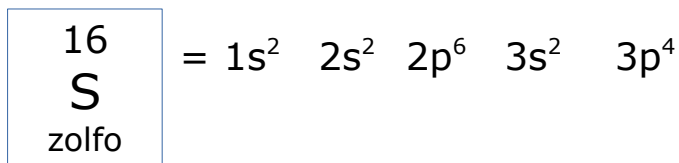
\uparrow , che si rappresentano con delle frecce.



Quindi:



Esempio pratico:



Si parte da $1s \rightarrow 1$ quadretto $\rightarrow 2$ frecce $\rightarrow 1s^2$

Poi... $2s \rightarrow 1$ quadretto $\rightarrow 2$ frecce $\rightarrow 2s^2$

$2p \rightarrow 3$ quadretti $\rightarrow 6$ frecce $\rightarrow 2p^6$

$3s \rightarrow 1$ quadretto $\rightarrow 2$ frecce $\rightarrow 3s^2$

$3p \rightarrow 3$ quadretti $\rightarrow 6$ frecce $\rightarrow 3p^6$

se si sommano tutti gli "esponenti" $\rightarrow 2 + 2 + 6 + 2 + 6$ il risultato fa 18 e non 16, quindi al $3p$ bisogna togliere 2 frecce, mettendo 1 freccia per quadrato anziché 2, facendolo diventare quindi $3p^4$.