

Distribuição e N° Quânticos

Lista zero, zero dúvidas

- 1)
- a) $_{20}\text{Ca}: 1s^2 2s^2 2p^6 3s^2 3p^6 4s^2$
- b) $_{25}\text{Mn}: 1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^5$
- c) $_{46}\text{Pd}: 1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10}$
 $4p^6 5s^2 4d^8$
- d) $_{32}\text{Ge}: 1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^2$
- e) $_{56}\text{Ba}: 1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10}$
 $4p^6 5s^2 4d^{10} 5p^6 6s^2$

3)

a)

$n = 4$

$l = 0$

$m = 0$

$s = +1/2$

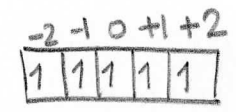
b)

$n = 3$

$l = 2$

$m = +2$

$s = -1/2$



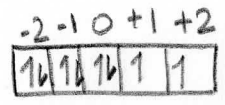
c)

$n = 4$

$l = 2$

$m = 0$

$s = +1/2$



- 2)
- a) -4°
 $-2e^{-}$
 $-4s$
- b) -4°
 $-2e^{-}$
 $-3d$
- c) -5°
 $-2e^{-}$
 $-4d$
- d) -4°
 $-4e^{-}$
 $-4p$
- e) -6°
 -2°
 $-6s$

d)

$n = 4$

$l = 1$

$m = 0$

$s = -1/2$

e)

$n = 6$

$l = 0$

$m = 0$

$s = +1/2$

- 4)
- a) $_{13}\text{Al}^{+3}: 1s^2 2s^2 2p^6$
- b) $_{26}\text{Fe}^{+2}: 1s^2 2s^2 2p^6 3s^2 3p^6 3d^6$
- c) $_{33}\text{As}^{+3}: 1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10}$
- d) $_{30}\text{Zn}^{+2}: 1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10}$