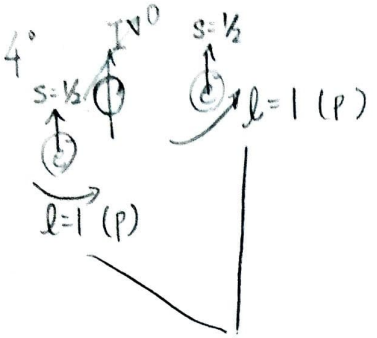
Hund's law:

1° 從低能階開始填 = 亂度最大

2° 考慮最外層能量簡併狀態

3° 以 Si 為例，最外階 3P，2e⁻

4°



S : ℓ = 0
P : ℓ = 1
d : ℓ = 2

$|\ell=1\rangle \otimes |\ell=1\rangle$ couple $\rightarrow |\ell_{tot}=2\rangle \otimes |\ell_{tot}=1\rangle \otimes |\ell_{tot}=0\rangle$

Notation: D, P, S

	Symmetric	Antisymmetric	Symmetric
electron spin	↓	↓	↓
	Antisymmetric	Symmetric	Antisymmetric
	singlet	triplet	singlet
	^1D	^3P	^1S

^3P: Lowest energy