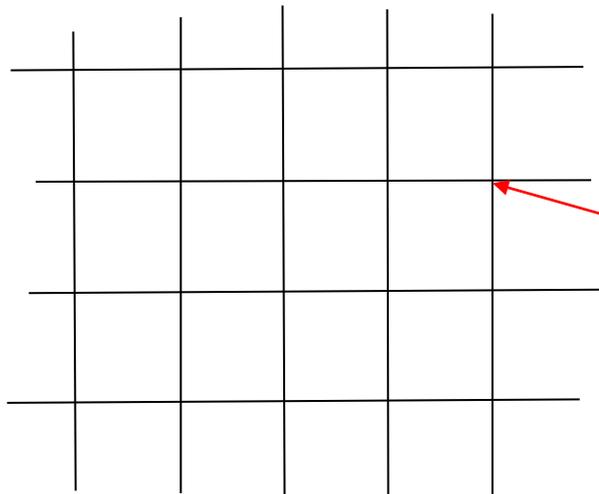


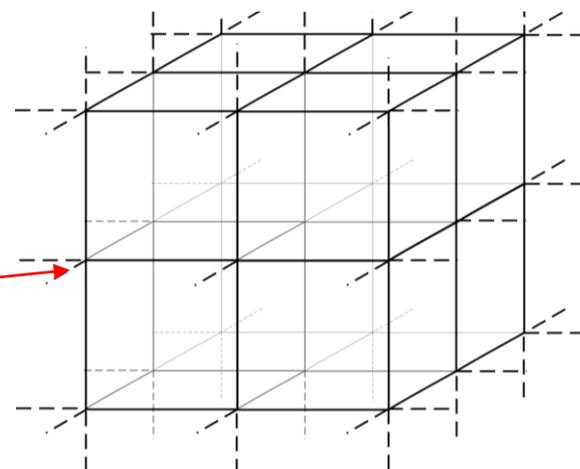
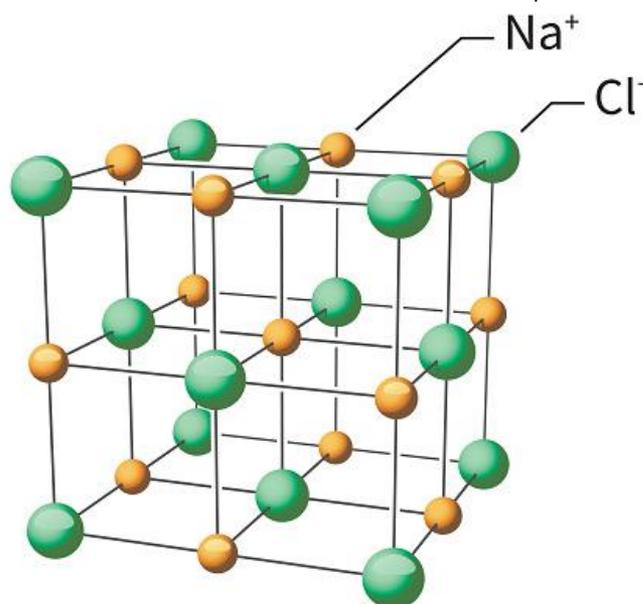
DISTRIBUZIONE ORDINATA DEGLI ATOMI IN UN PIANO

«Rete»

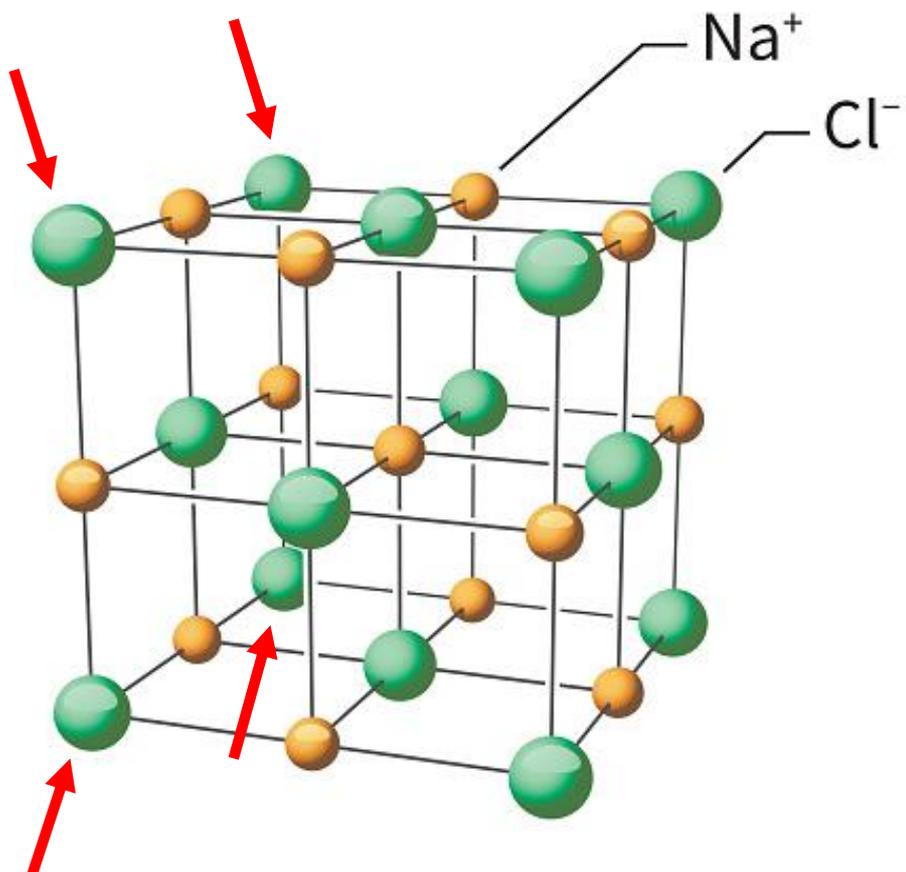


nodi

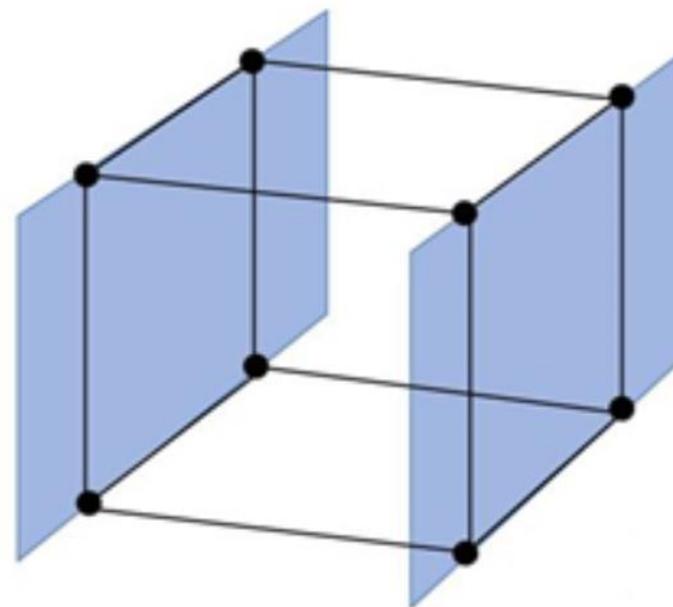
Reticolo

Reticolo
cristallino Na^+ Cl^-

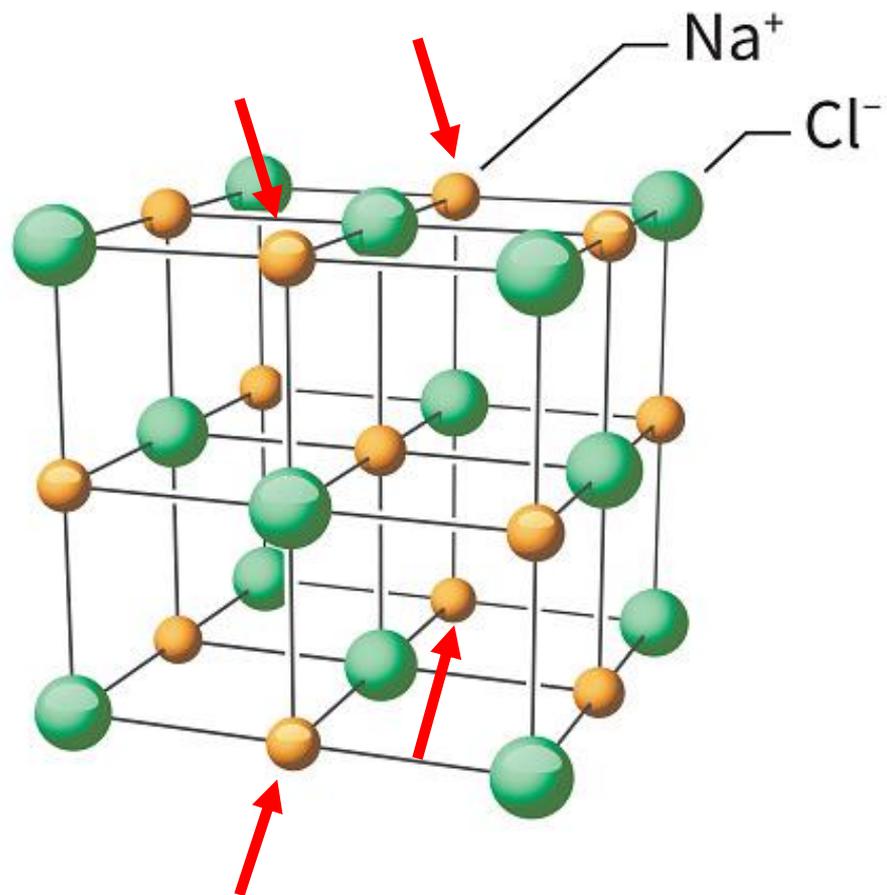
DISTRIBUZIONE ORDINATA DEGLI ATOMI IN UN PIANO



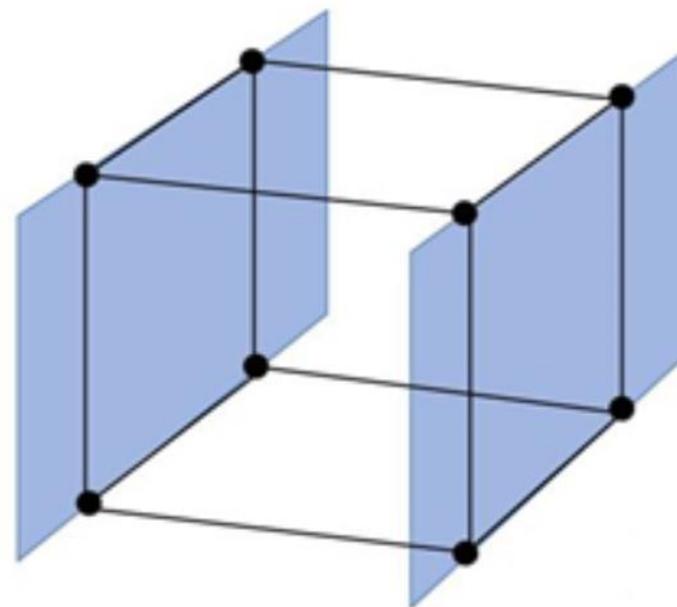
Piani atomici



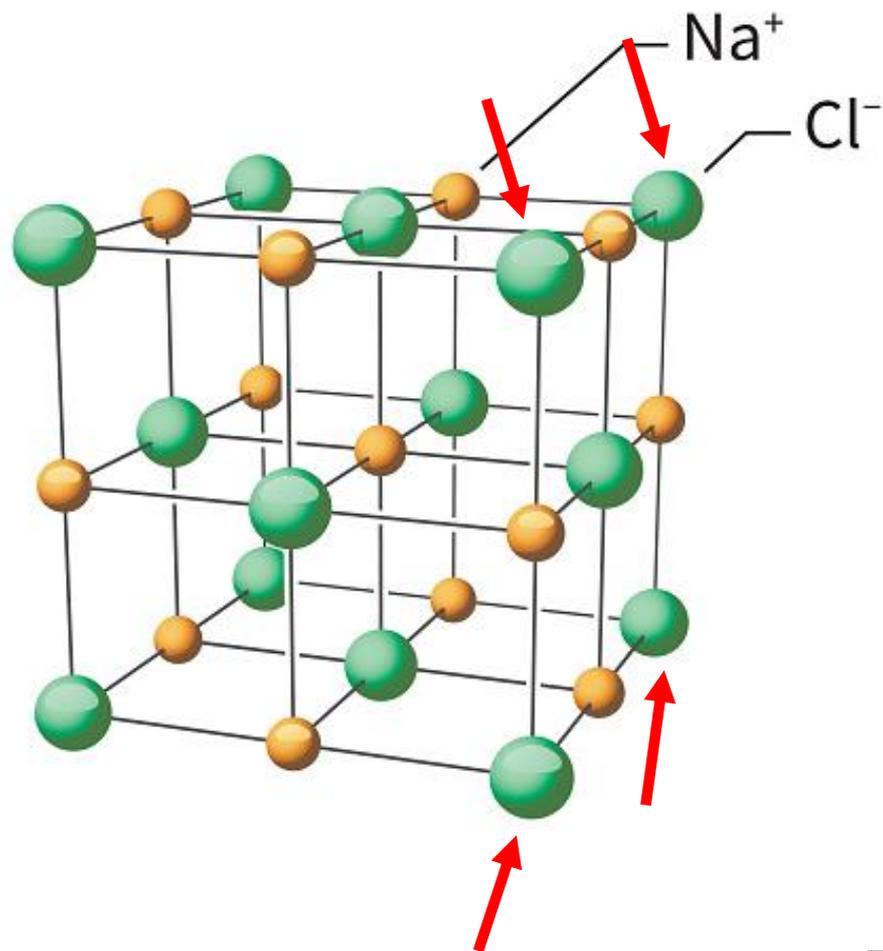
DISTRIBUZIONE ORDINATA DEGLI ATOMI IN UN PIANO



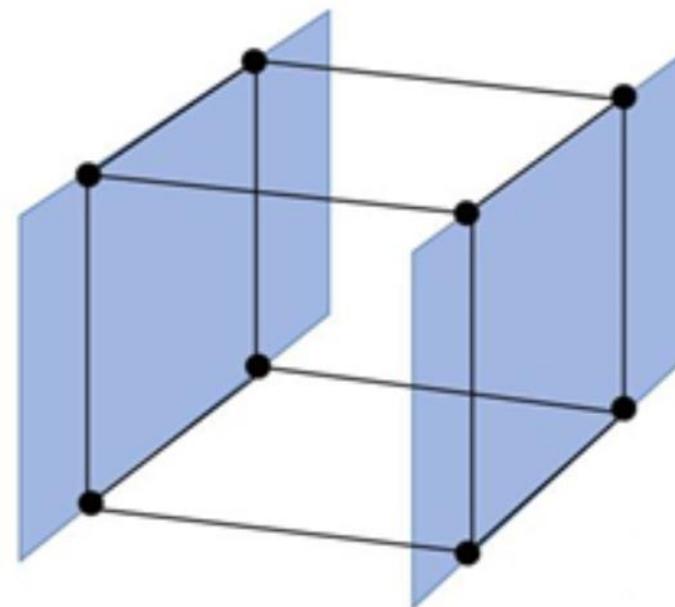
Piani atomici



DISTRIBUZIONE ORDINATA DEGLI ATOMI IN UN PIANO

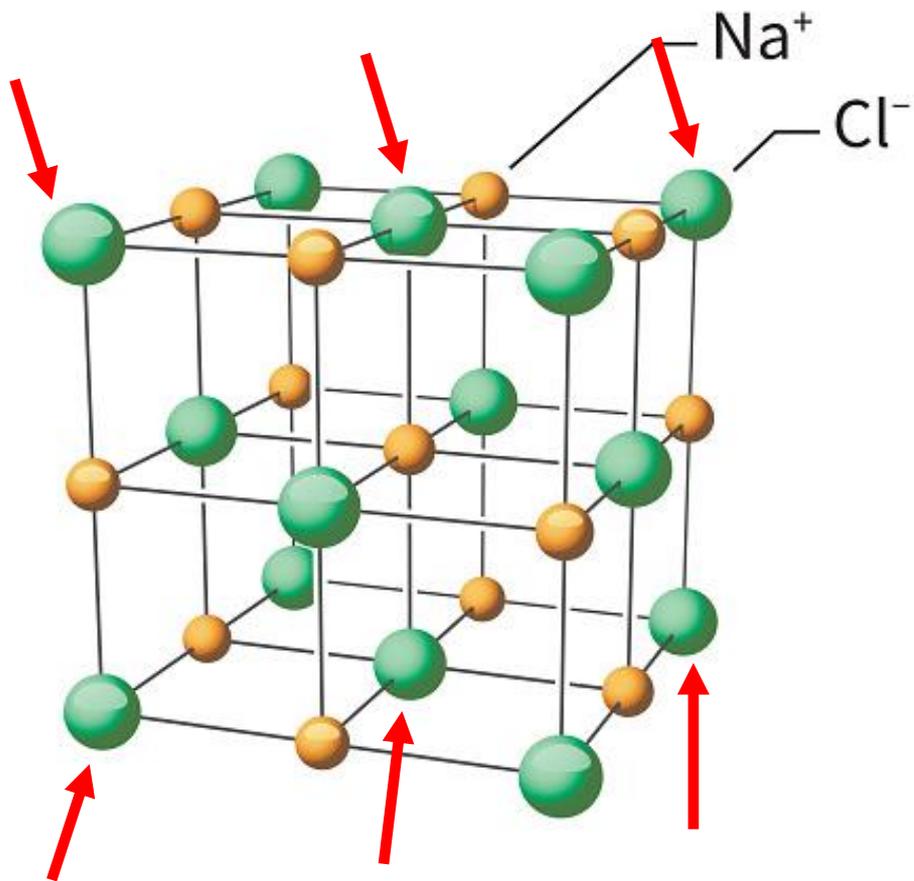


Piani atomici

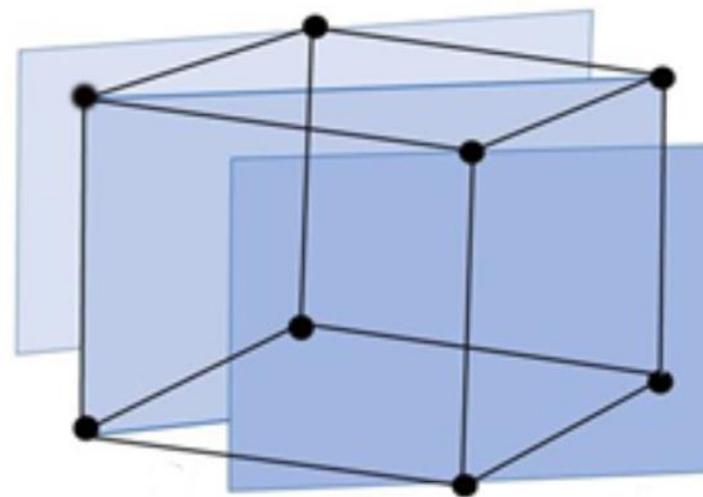


Piani atomici paralleli tra loro =
Famiglia di piani atomici

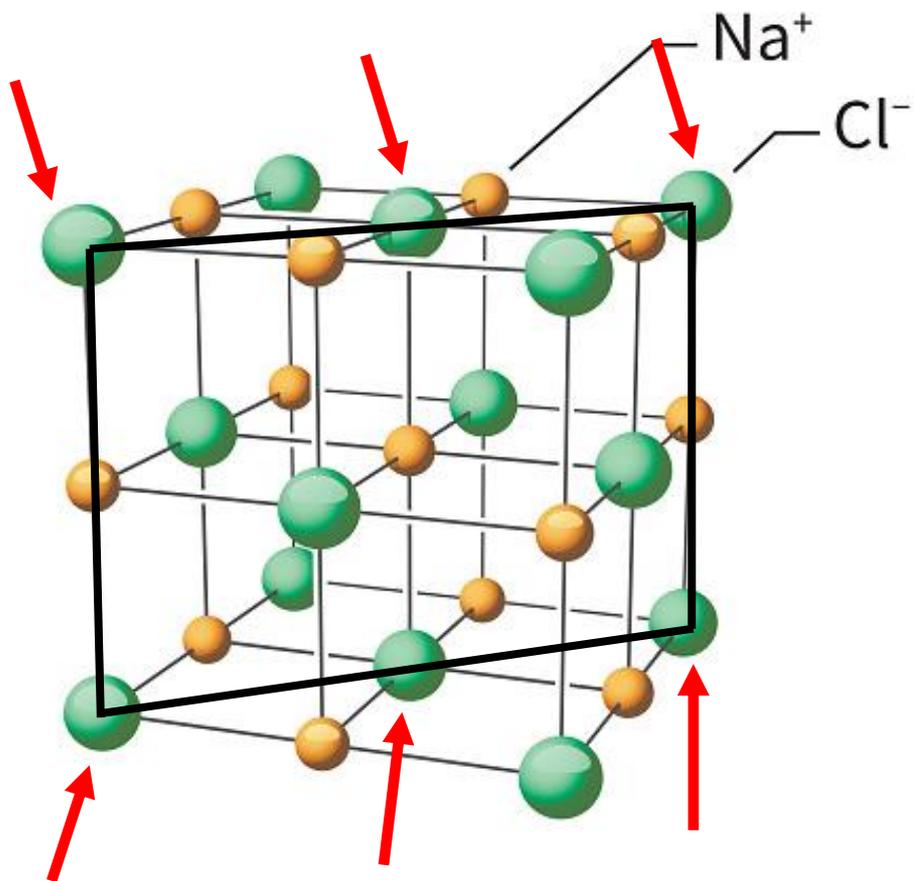
DISTRIBUZIONE ORDINATA DEGLI ATOMI IN UN PIANO



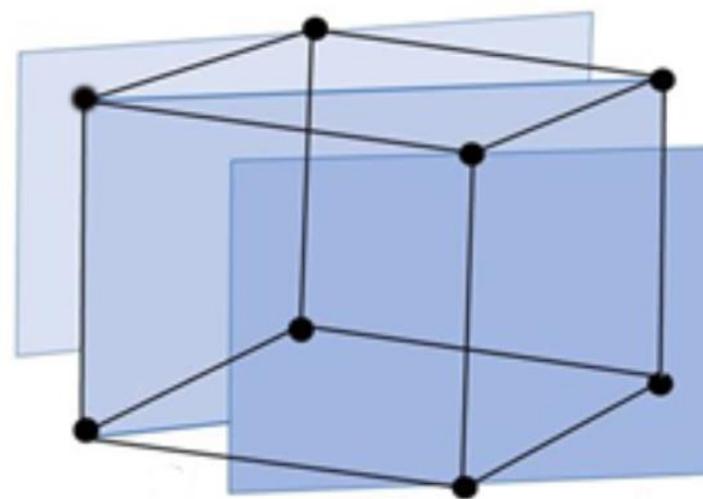
Piani atomici



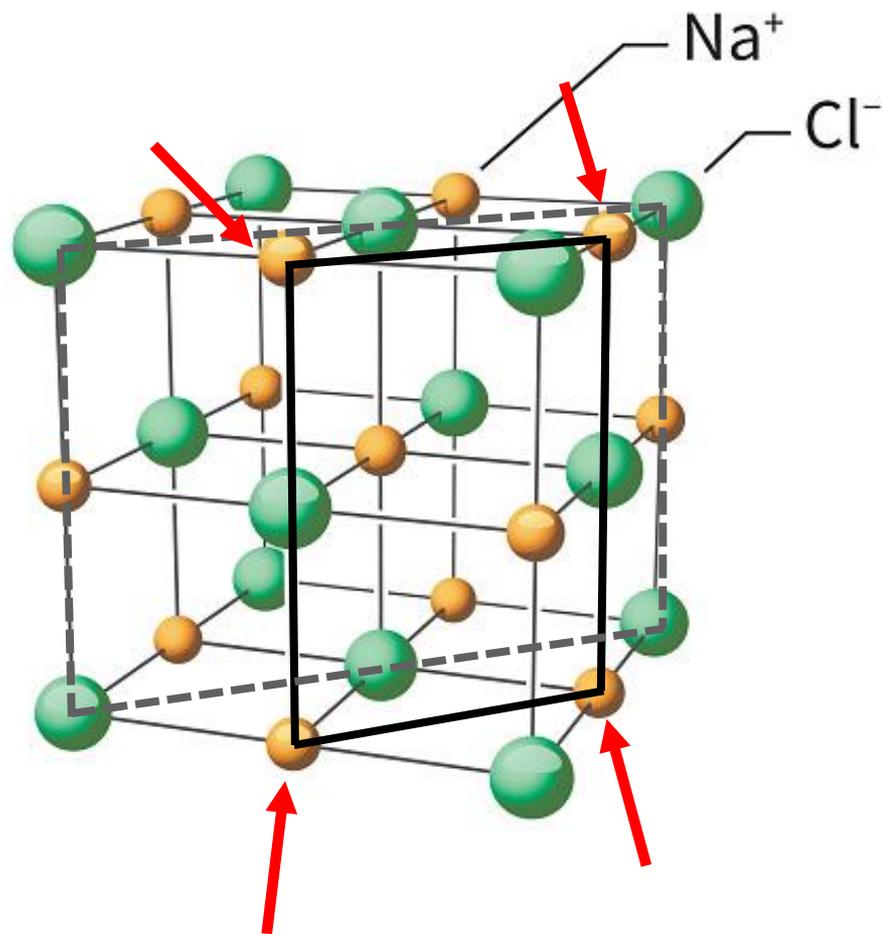
DISTRIBUZIONE ORDINATA DEGLI ATOMI IN UN PIANO



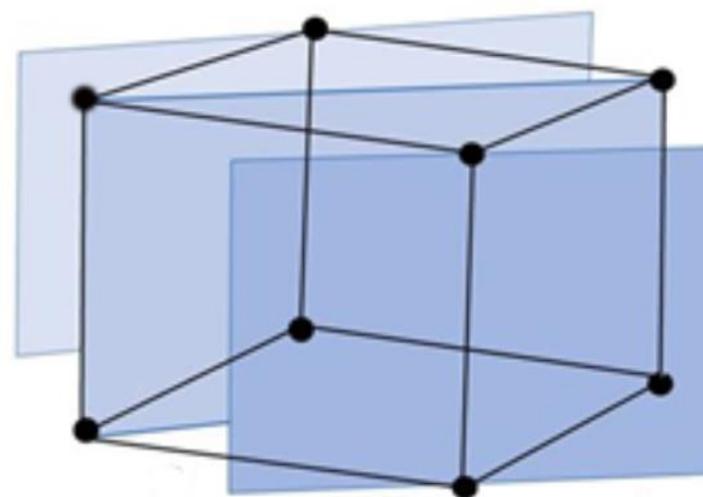
Piani atomici



DISTRIBUZIONE ORDINATA DEGLI ATOMI IN UN PIANO



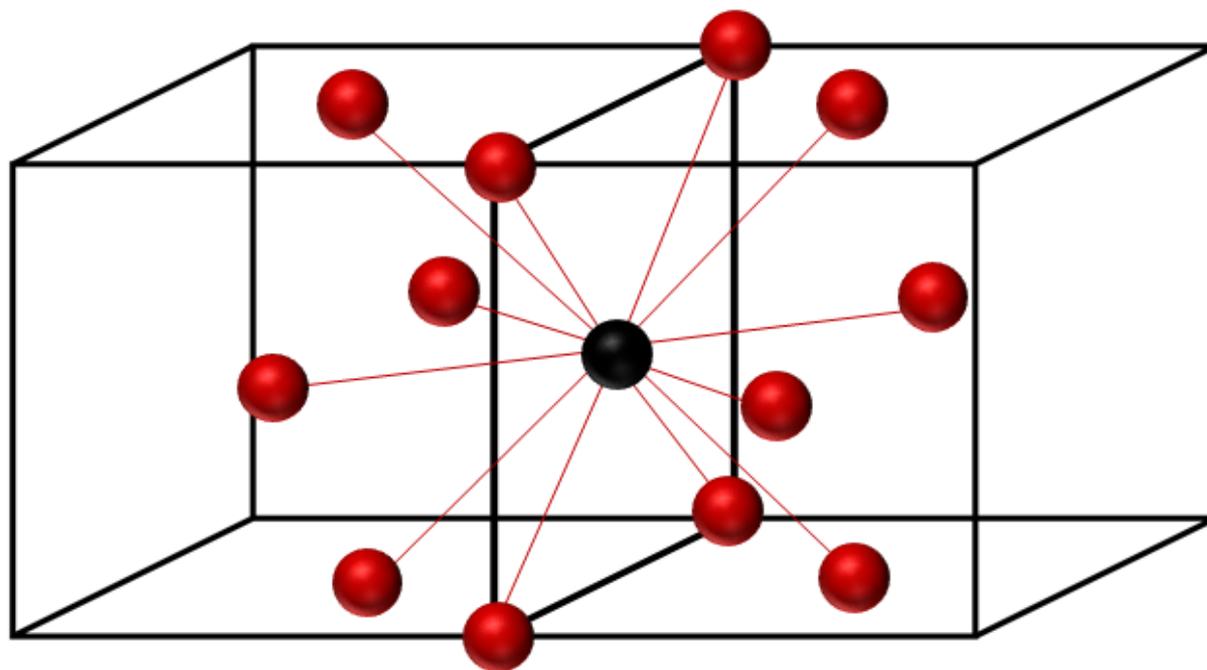
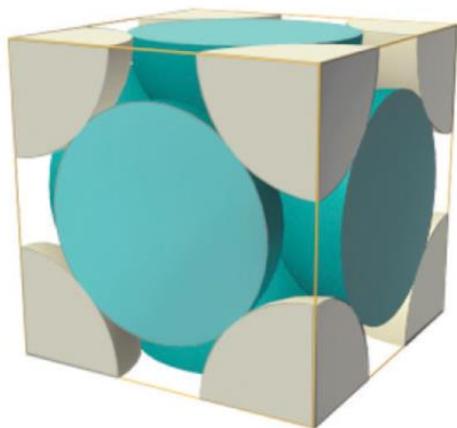
Piani atomici



Piani atomici paralleli tra loro =
Famiglia di piani atomici

SITI INTERSTIZIALI NEI RETICOLI CFC

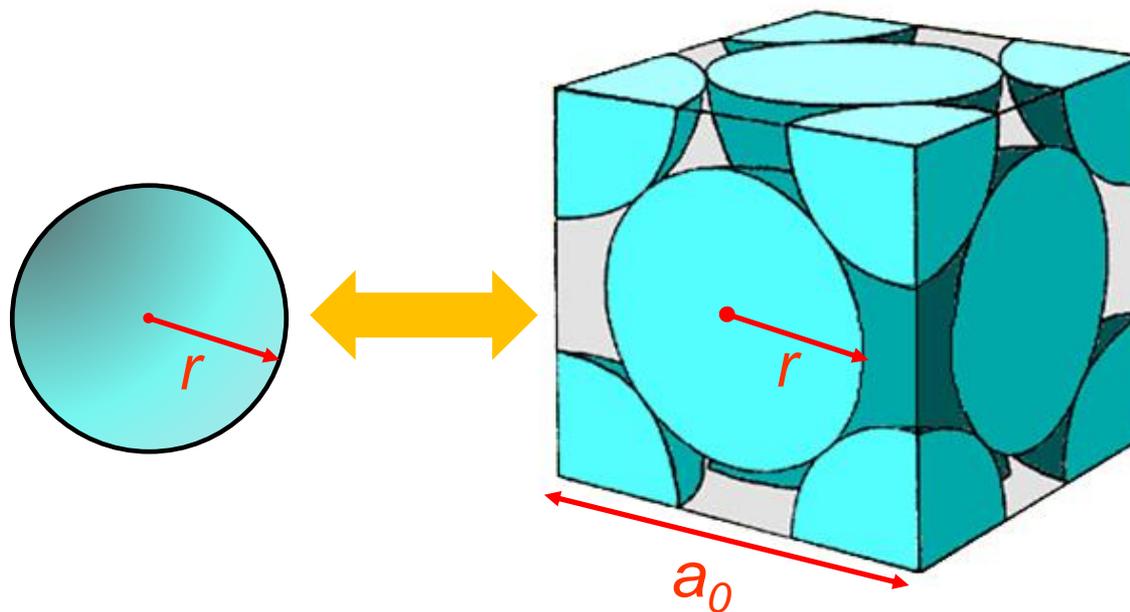
Numero di coordinazione* per un CFC (o $F_{ace}C_{entered}C_{ube}$) = **12**



* numero di atomi che toccano un altro atomo o il numero dei vicini più prossimi

Atomi metallici che formano strutture CFC:

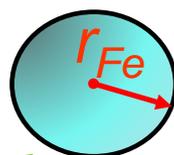
Atomo	Raggio, r (Å)
Al	1.43
Ag	1.44
Au	1.44
Cu	1.28
Fe- γ	1.23
Ni	1.25
Pb	1.54
Pt	1.39



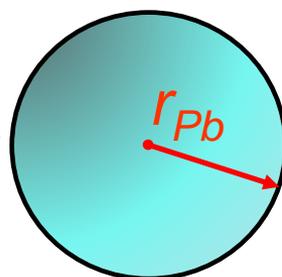
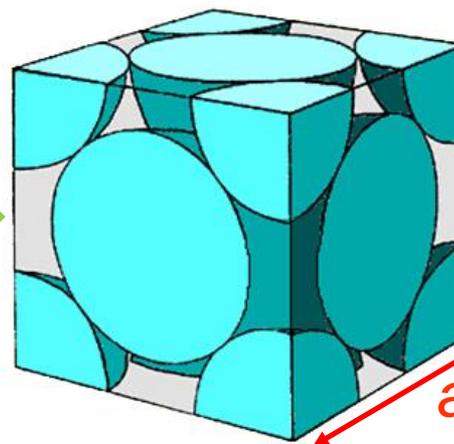
$$4r = \sqrt{2} \cdot a_0$$

Atomi metallici che formano strutture CFC:

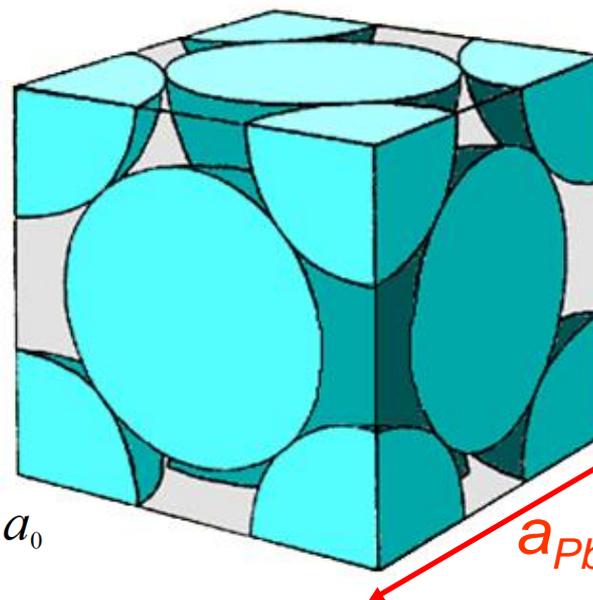
Atomo	Raggio, r (Å)
Al	1.43
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Pt	1.39



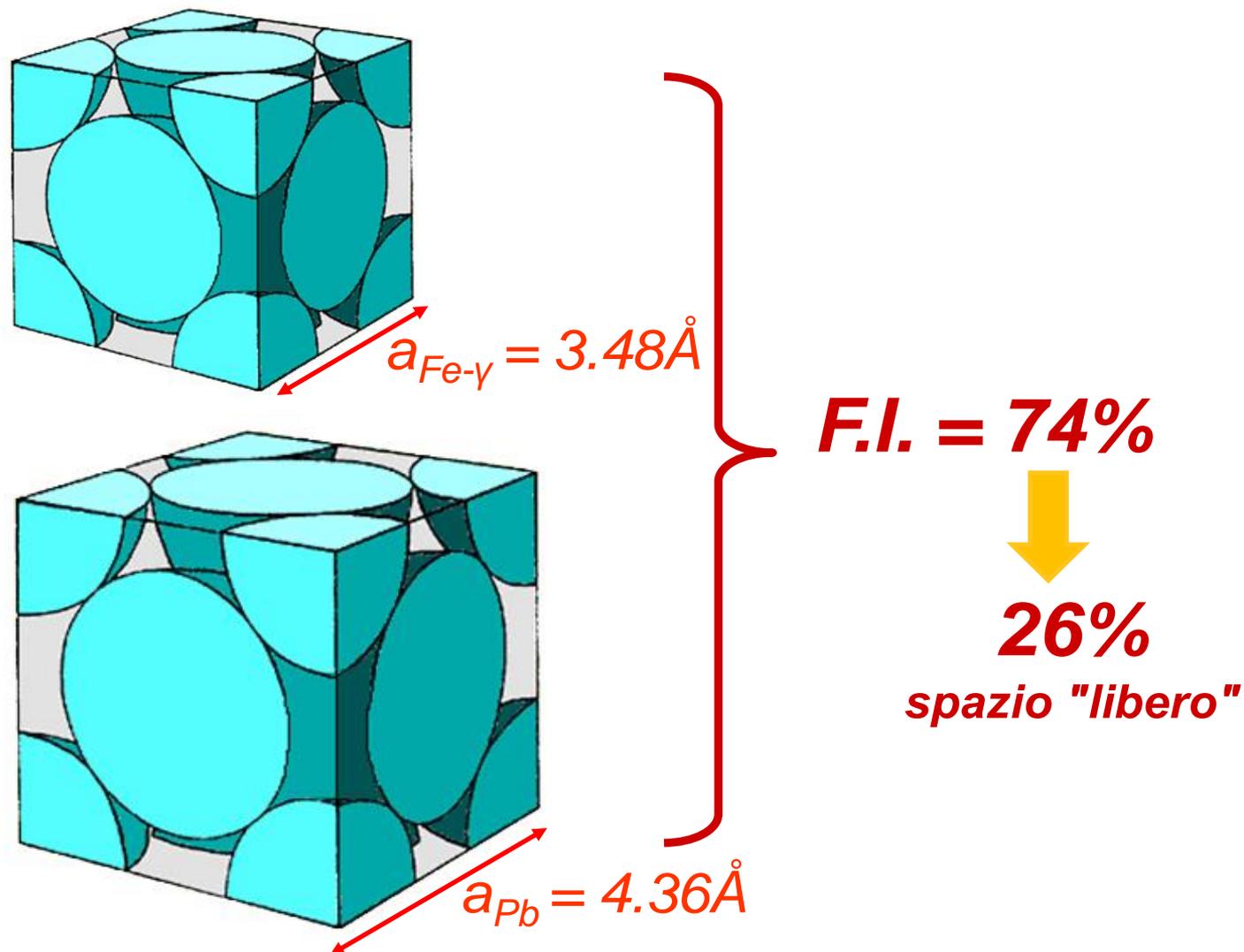
$$4r = \sqrt{2} \cdot a_0$$



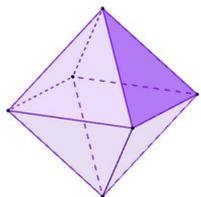
$$4r = \sqrt{2} \cdot a_0$$



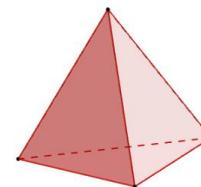
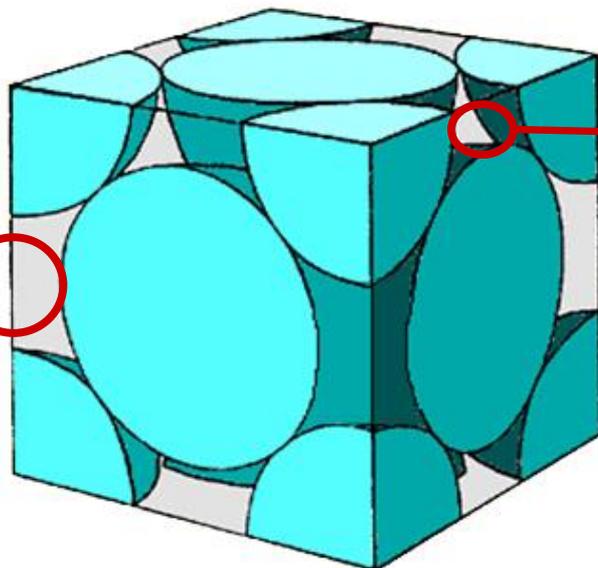
Atomi metallici che formano strutture CFC:



Atomi metallici che formano strutture CFC:

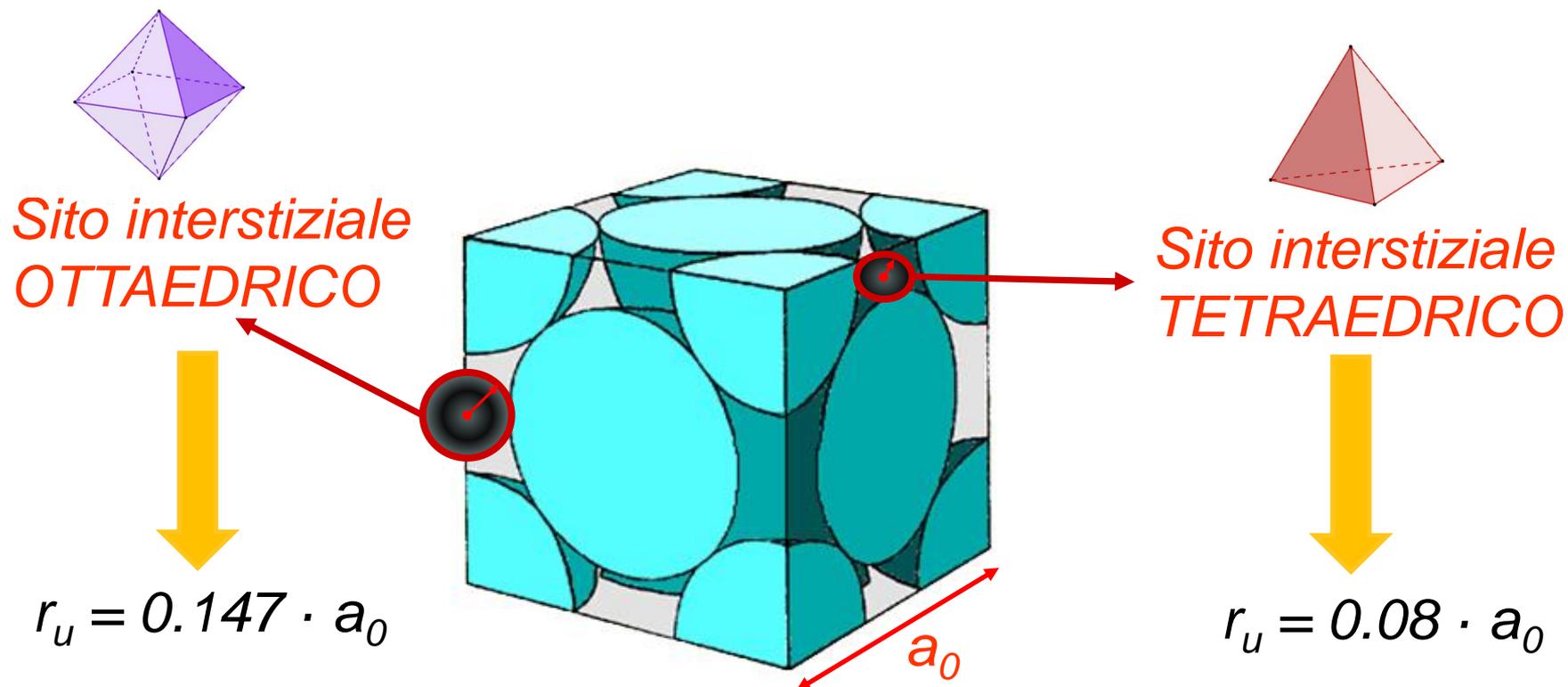


*Sito interstiziale
OTTAEDRICO*

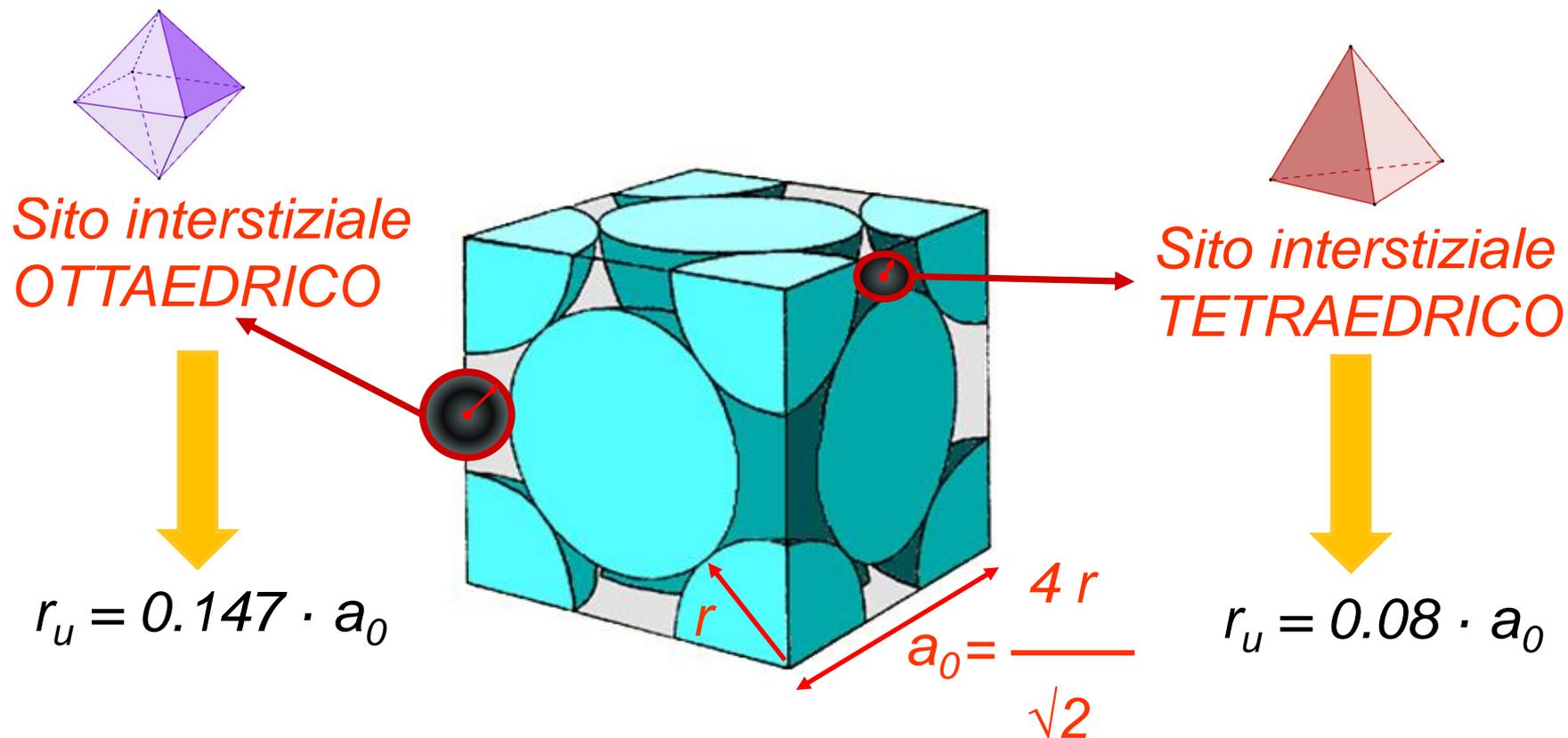


*Sito interstiziale
TETRAEDRICO*

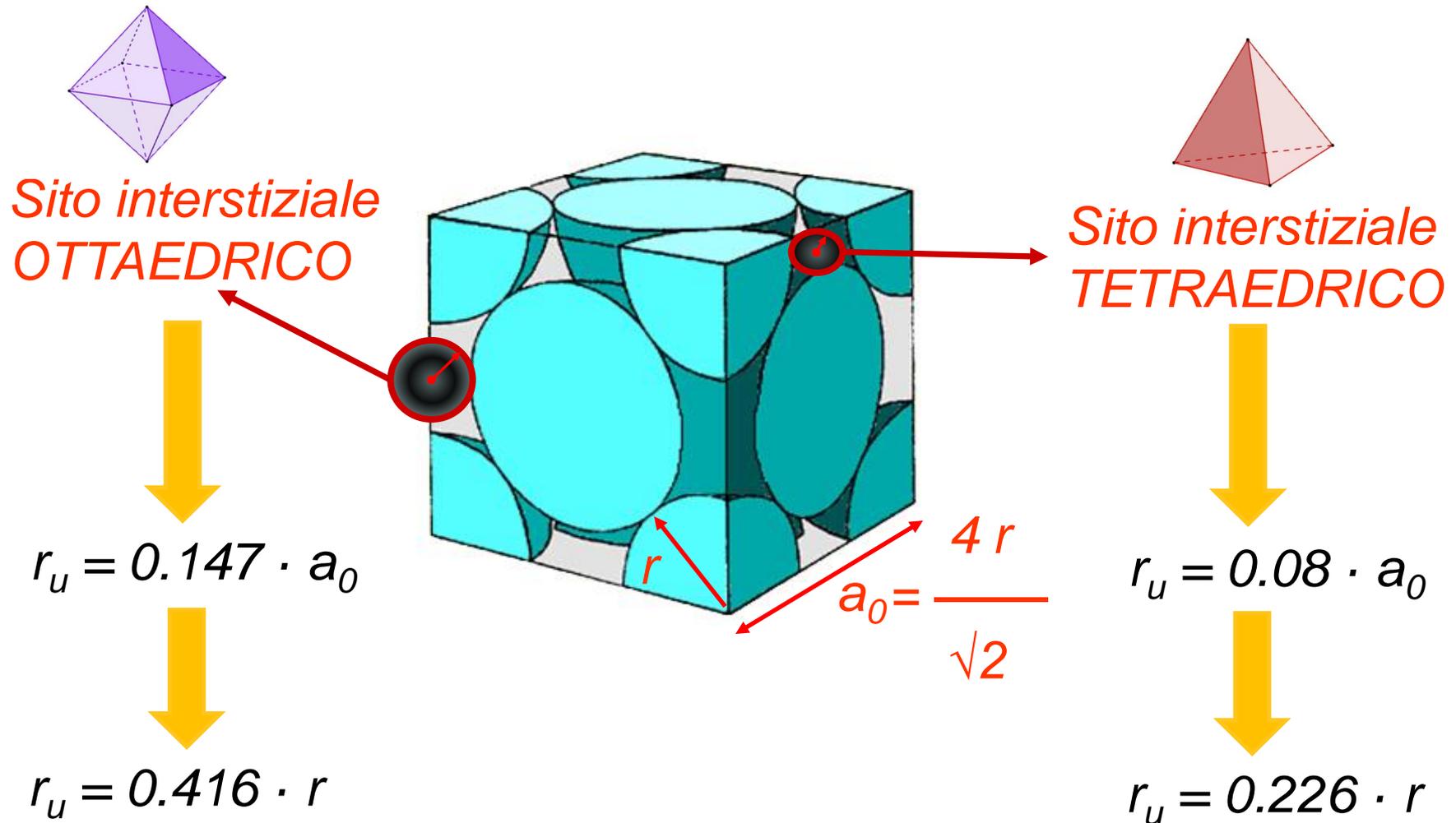
Atomi metallici che formano strutture CFC:



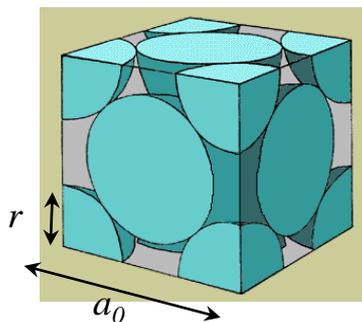
Atomi metallici che formano strutture CFC:



Atomi metallici che formano strutture CFC:

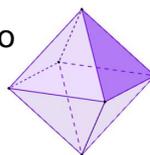


RETICOLO CFC:



$$a_0 = \frac{4r}{\sqrt{2}}$$

Sito ottaedrico



$$r_u = 0.147 \cdot a_0$$



$$r_u = 0.416 \cdot r$$

Sito tetraedrico

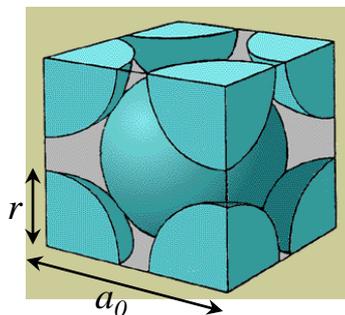


$$r_u = 0.08 \cdot a_0$$



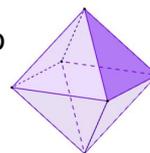
$$r_u = 0.226 \cdot r$$

RETICOLO CCC:



$$a_0 = \frac{4r}{\sqrt{3}}$$

Sito ottaedrico



$$r_u = 0.067 \cdot a_0$$



$$r_u = 0.155 \cdot r$$

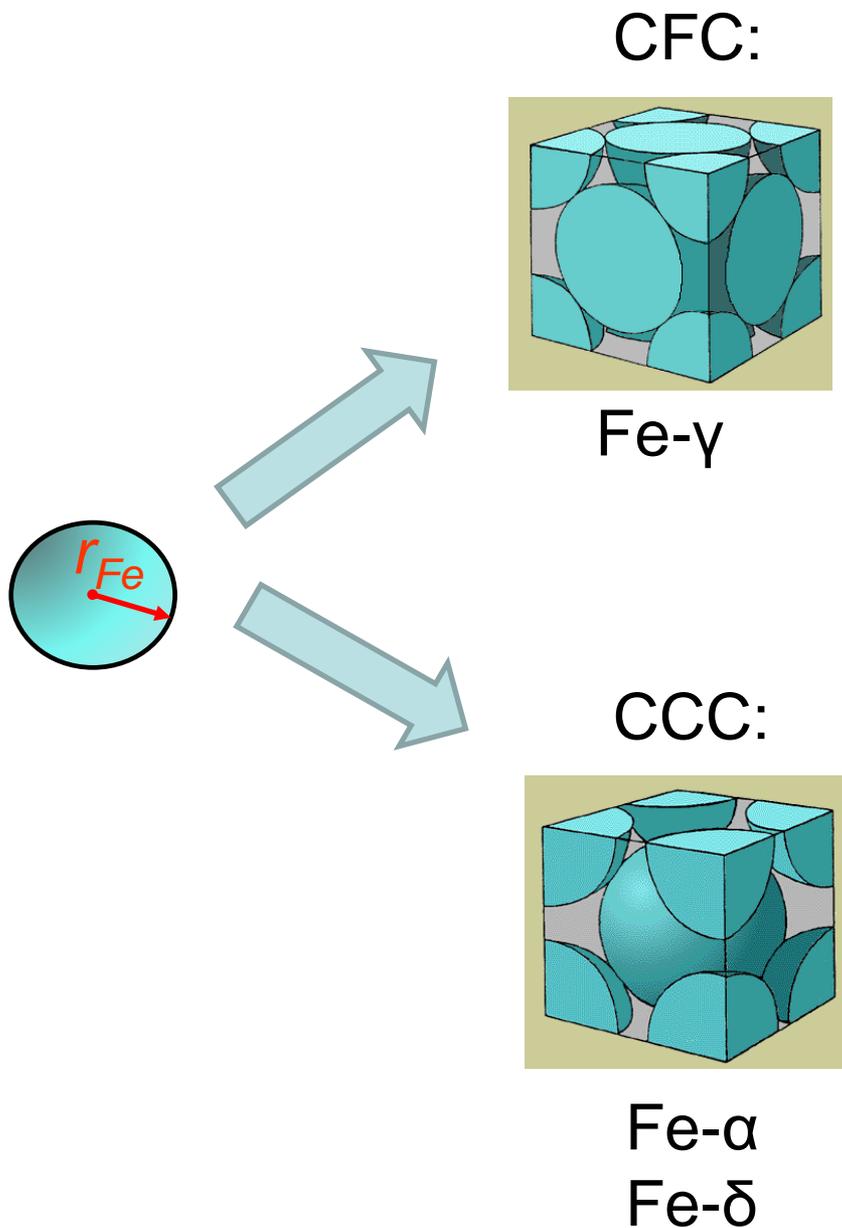
Sito tetraedrico

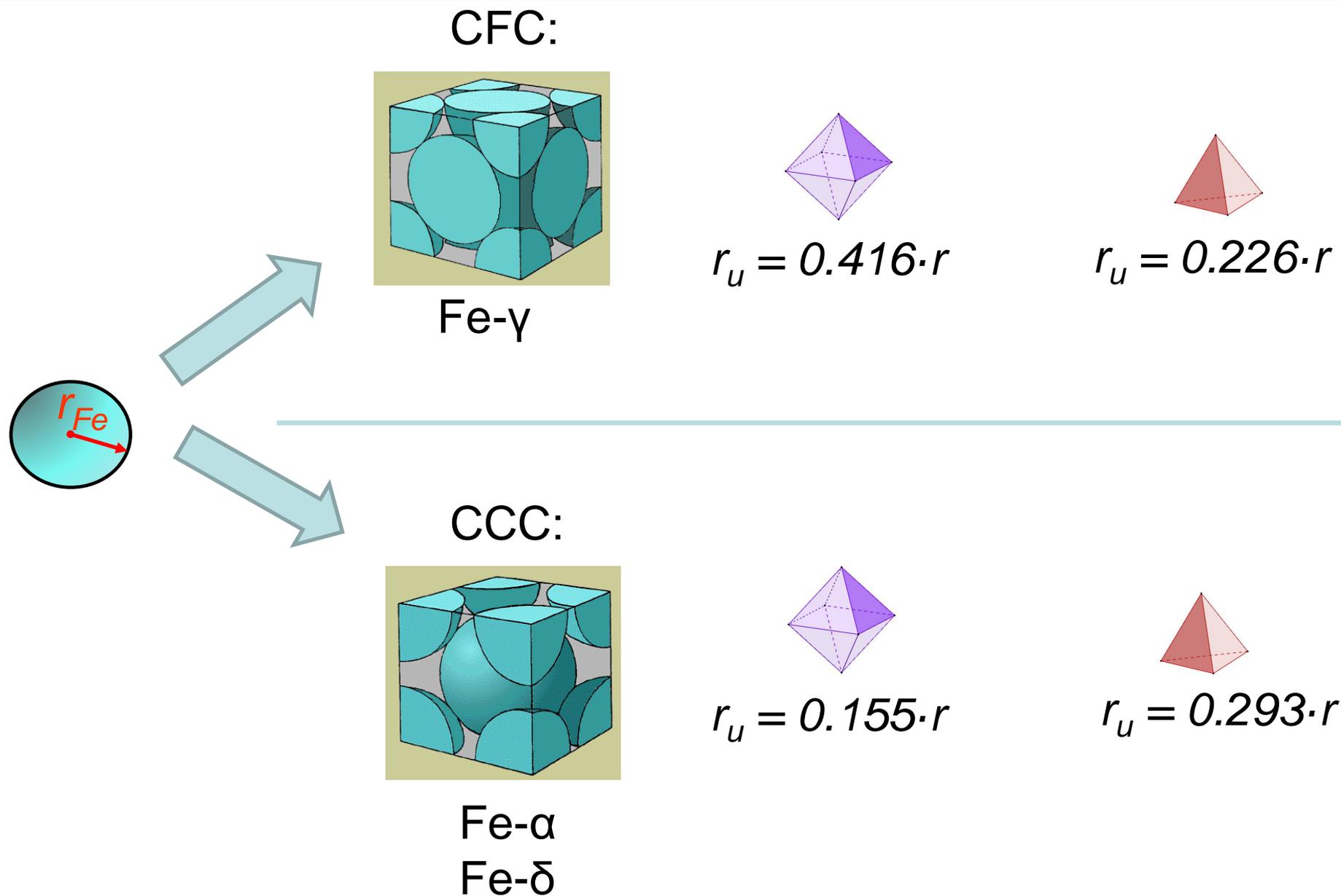


$$r_u = 0.127 \cdot a_0$$

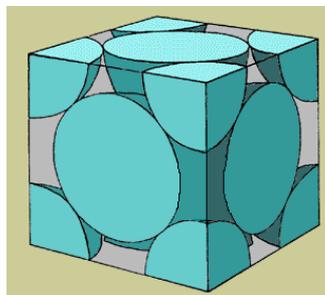
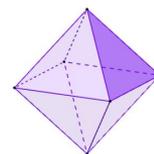


$$r_u = 0.293 \cdot r$$

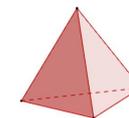




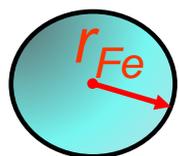
CFC:

Fe- γ 

$$r_u = 0.416 \cdot r$$

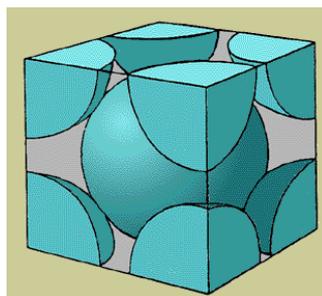
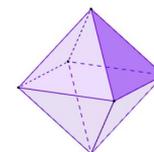


$$r_u = 0.226 \cdot r$$

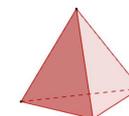


$$r_{Fe} = 1.23 \text{ \AA}$$

CCC:

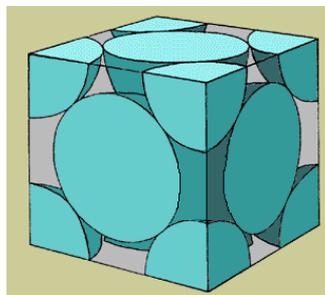
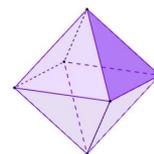
Fe- α
Fe- δ 

$$r_u = 0.155 \cdot r$$

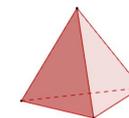


$$r_u = 0.293 \cdot r$$

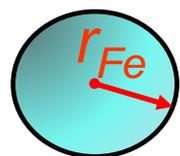
CFC:

Fe- γ 

$$r_u = 0.51\text{\AA}$$

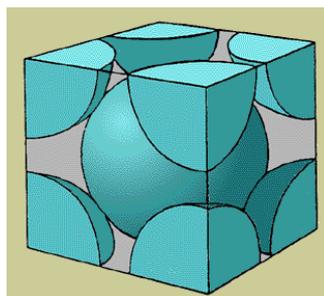
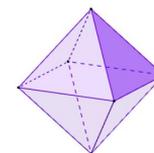


$$r_u = 0.28\text{\AA}$$

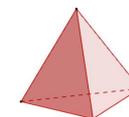


$$r_{Fe} = 1.23\text{\AA}$$

CCC:

Fe- α
Fe- δ 

$$r_u = 0.19\text{\AA}$$



$$r_u = 0.36\text{\AA}$$