

**Relationship between unit cell types,
atoms, coordination no., packing efficiency
edge length and particle radius**

	sc	bcc	fcc (ccp)	hcp
# atoms/uc	1	2	4	X
coord #	6	8	12	12
% space occupied	52 %	68 %	74 %	74 %
% empty space	48 %	32 %	26 %	26 %
edge length in terms of radius	$l = \frac{4r}{\sqrt{4}} = 2r$	$l = \frac{4r}{\sqrt{3}}$	$l = \frac{4r}{\sqrt{2}}$	X