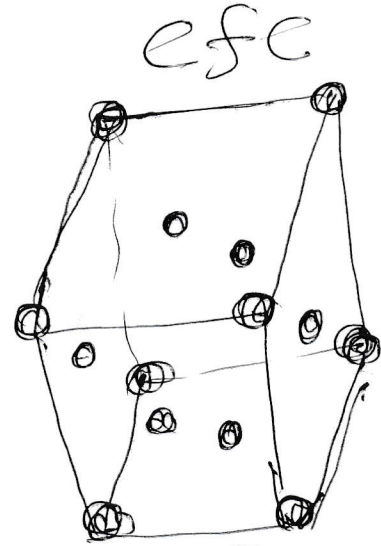
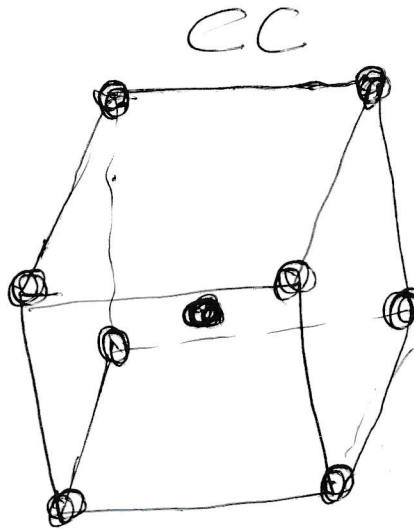
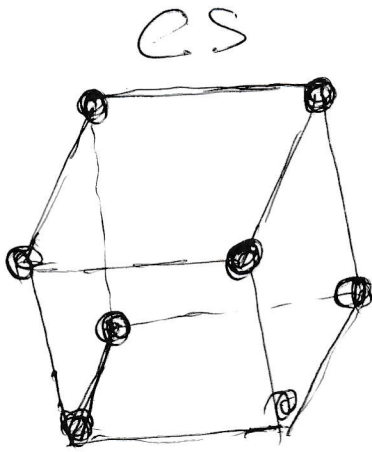


Corrigé: Contrôle TP physique du solide I
 zone LMD physique (M) 2022/2023

EX 1: (8 pts)



1) $d_{PPV} = a$
 $d_{SPV} = \sqrt{2} a$

2) $N_{PPV} = 6$
 $N_{SPV} = 12$

3) $[100]$
 (100)

4) $C_{CS} = \frac{\pi}{6} = 0,523$
 $\rho_{CS} = 52\%$

$d_{PPV} = \frac{\sqrt{3}}{2} a$
 $d_{SPV} = a$

$N_{PPV} = 8$
 $N_{SPV} = 6$

$[111]$
 (110)

$C_{CC} = \frac{\sqrt{3}}{8} \pi = 0,68$
 $\rho_{CC} = 68\%$

$d_{PPV} = \frac{\sqrt{2} a}{2}$
 $d_{SPV} = a$

$N_{PPV} = 12$
 $N_{SPV} = 6$
 $[110]$
 (111)

$C_{CFE} = \frac{\sqrt{2} \pi}{6} = 0,74$
 $\rho_{CFE} = 74\%$

5) La structure la plus dense est (CFE) (0,5)