## 小测

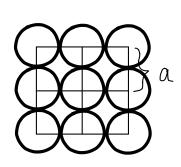
- 1.与固体物理关系最密切的是电磁力
- 2.蜂窝格子不是布拉维格子
- 3.找出晶体结构中的布拉维格子
- 4.找出布拉维格子的初基矢量
- 5.计算W.S.晶胞的面积

蜂窝格子的晶胞与布拉维格子有关,晶胞包含的点数等于基元数目。

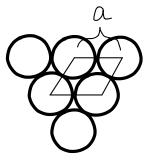
元胞(primitive cell): 只包含一个点的布拉维格子

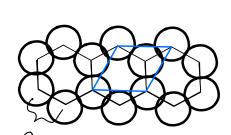
惯用晶胞(conventional cell): 带有基元的布拉维格子, 即晶体结构, 包含多个点

填充率 (packing fraction) 二维: f=S\_circle/S\_unitcell



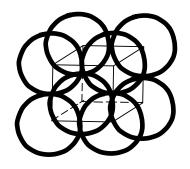
$$f = \frac{\pi}{4}$$

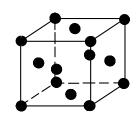




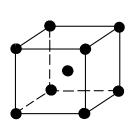
$$f = \frac{\sqrt{3}\pi}{9}$$

三维: f=V\_ball / V\_unitcell





$$f = \frac{\sqrt{2}\pi}{6}$$



$$f = \frac{5}{8}\pi$$