

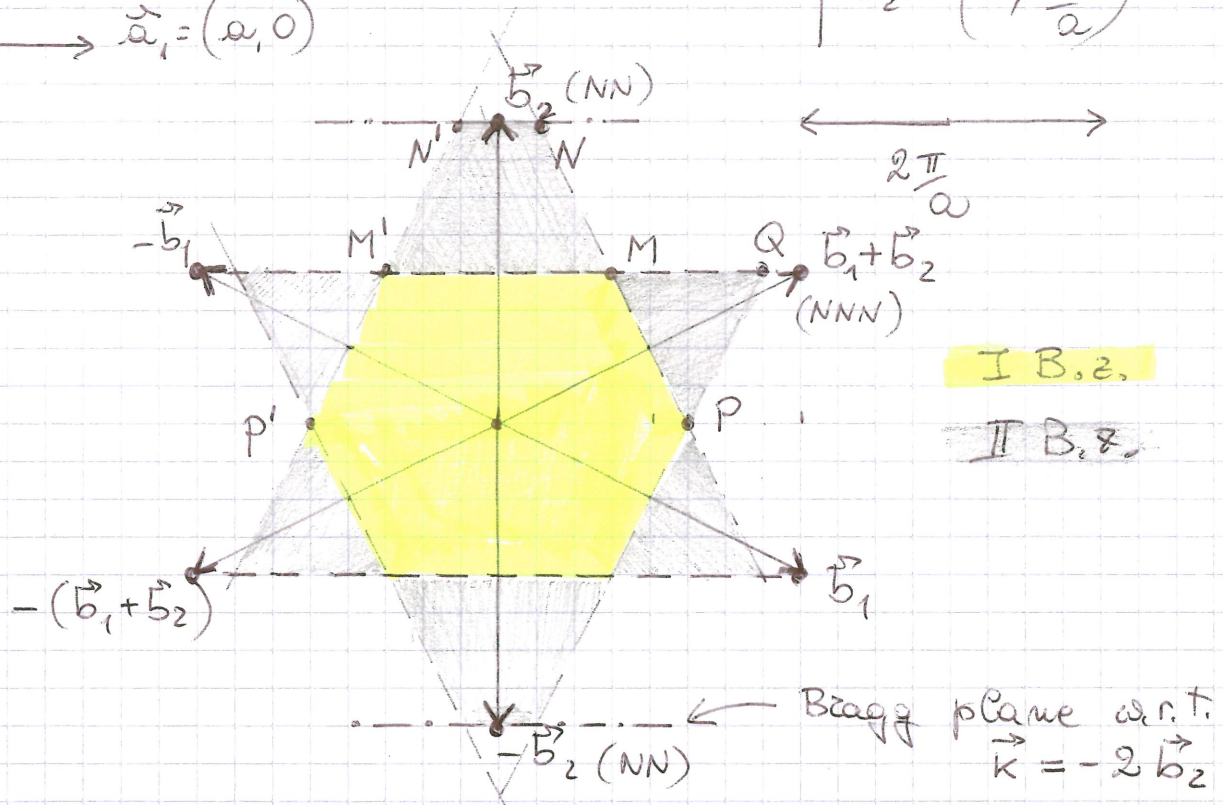
14/7/2014 Ex. 1

$$\vec{a}_2 = \left(\frac{a}{2}, a\right)$$

$$\vec{a}_1 = (a, 0)$$

OBLIQUE LATTICE

$$\Rightarrow \begin{cases} \vec{b}_1 = \frac{\pi}{a}(2, -1) \\ \vec{b}_2 = \left(0, \frac{2\pi}{a}\right) \end{cases}$$



$$M = \frac{\pi}{a} \left(\frac{3}{4}, 1\right)$$

$$P = \left(\frac{5\pi}{4a}, 0\right)$$

$$N = \left(\frac{\pi}{a}, \frac{2\pi}{a}\right)$$

$$Q = \left(\frac{7\pi}{4a}, \frac{\pi}{a}\right)$$

$$\Omega_{I B.z.} = |\vec{b}_1 \times \vec{b}_2| = \left(\frac{2\pi}{a}\right)^2$$