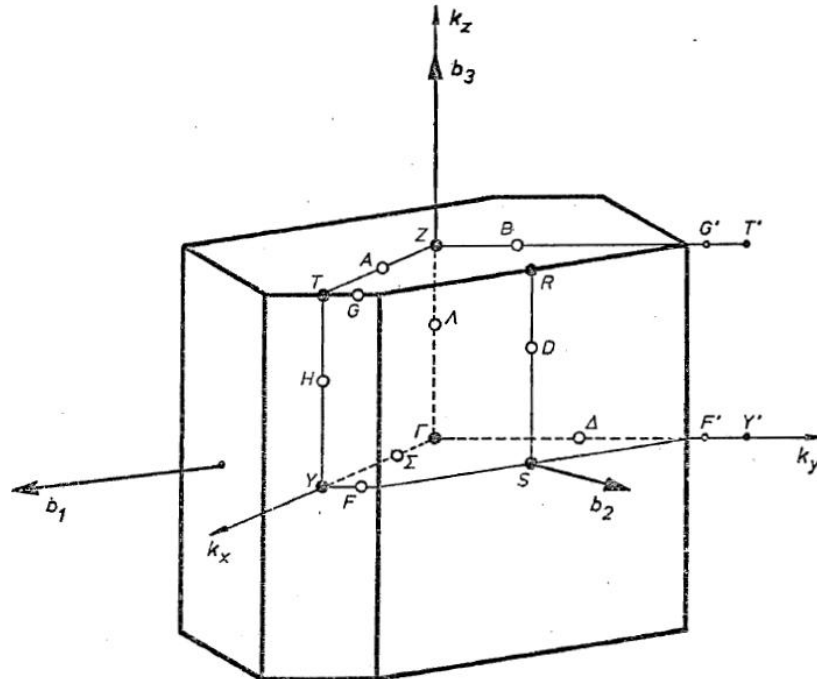


FIRST BRILLOUIN ZONE OF BASE CENTERED ORTHORHOMBIC LATTICE

Studentproject WS10/11 by Leitner Matthias and Klinser Gregor



CONDITION: $\vec{k} = u \cdot \vec{b}_1 + v \cdot \vec{b}_2 + w \cdot \vec{b}_3 \quad (u, v, w)$ $a > b \neq c$ $\alpha = \beta = \gamma = 90^\circ$ $\xi = \frac{a^2 + b^2}{4a^2}$	
	$P(\vec{k})$
$\Gamma : (0,0,0)$ $Y : (1/2, 1/2, 0)$ $Z : (0,0,1/2)$ $T : (1/2, 1/2, 1/2)$ $S : (0, 1/2, 0)$ $R : (0, 1/2, 1/2)$ $\Lambda : (0,0,w) \quad 0 < w < 1/2$ $H : (1/2, 1/2, w) \quad 0 < w < 1/2$ $\Sigma : (u,u,0) \quad 0 < u < 1/2$ $A : (u,u,1/2) \quad 0 < u < 1/2$ $\Delta : (-v,v,0) \quad 0 < v \leq \xi$ $B : (-v,v,1/2) \quad 0 < v \leq \xi$ $F : (1/2-v, 1/2+v, 0) \quad 0 < v \leq 1/2 - \xi$ $G : (1/2-v, 1/2+v, 1/2) \quad 0 < v \leq 1/2 - \xi$ $D : (0, 1/2, w) \quad 0 < w < 1/2$	mmm mmm mmm mmm $2/m$ $2/m$ $mm2$ $mm2$ $mm2$ $mm2$ $mm2$ $mm2$ $mm2$ $mm2$ 2
CHOSEN PARAMETERS:	$a = 5$ $b = 4$ $c = 6$

