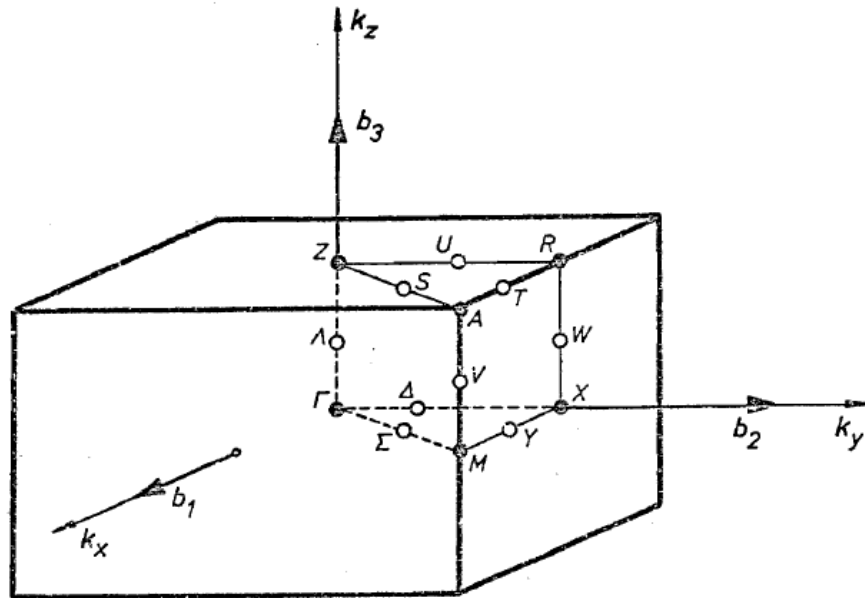


FIRST BRILLOUIN ZONE OF SIMPLE TETRAGONAL LATTICE

Studentproject WS10/11 by Leitner Matthias and Klinser Gregor



CONDITION: $\vec{k} = u \cdot \vec{b}_1 + v \cdot \vec{b}_2 + w \cdot \vec{b}_3 \quad (u, v, w)$ $a = b \neq c$ $\alpha = \beta = \gamma = 90^\circ$	
	$P(\vec{k})$
$\Gamma : (0,0,0)$ $M : (1/2,1/2,0)$ $Z : (0,0,1/2)$ $A : (1/2,1/2,1/2)$ $X : (0,1/2,0)$ $R : (0,1/2,1/2)$ $\Lambda : (0,0,w) \quad 0 < w < 1/2$ $V : (1/2,1/2,w) \quad 0 < w < 1/2$ $W : (0,1/2,w) \quad 0 < w < 1/2$ $\Delta : (0,v,0) \quad 0 < v < 1/2$ $U : (0,v,1/2) \quad 0 < v < 1/2$ $\Sigma : (u,u,0) \quad 0 < u < 1/2$ $S : (u,u,1/2) \quad 0 < u < 1/2$ $Y : (u,1/2,0) \quad 0 < u < 1/2$ $T : (u,1/2,1/2) \quad 0 < u < 1/2$	$4/m\bar{m}m$ $4/m\bar{m}m$ $4/m\bar{m}m$ $4/m\bar{m}m$ $m\bar{m}m$ $m\bar{m}m$ $4mm$ $4mm$ $mm2$ $mm2$ $mm2$ $mm2$ $mm2$ $mm2$ $mm2$ $mm2$
CHOSEN PARAMETERS: $a = b = 5$ $c = 10$	

