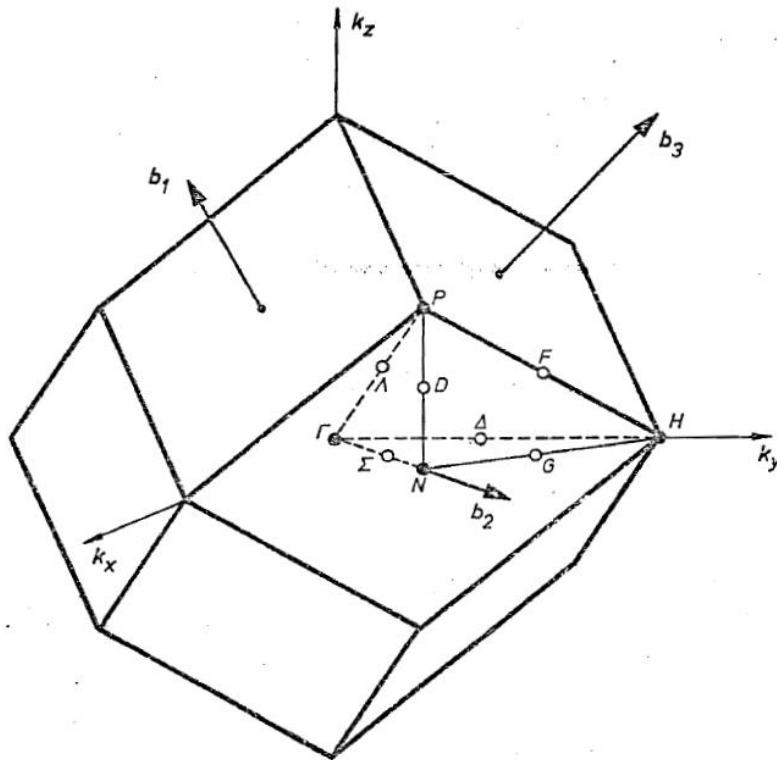


FIRST BRILLOUIN ZONE OF BODY CENTERED CUBIC LATTICE

Studentproject WS10/11 by Leitner Matthias and Klinser Gregor



CONDITION: $\vec{k} = u \cdot \vec{b}_1 + v \cdot \vec{b}_2 + w \cdot \vec{b}_3 \quad (u, v, w)$ $a = b = c$ $\alpha = \beta = \gamma = 90^\circ$	
	$P(\vec{k})$
$\Gamma : (0,0,0)$ $H : (-1/2, 1/2, 1/2)$ $P : (1/4, 1/4, 1/4)$ $N : (1/2, 0, 1/2)$	$m\bar{3}m$ $m\bar{3}m$ $\bar{4}3m$ $m\bar{3}m$
$\Delta : (0, v, v) \quad 0 < v < 1/2$ $\Lambda : (w, w, w) \quad 0 < w < 1/4$ $F : (1/2+3w, 1/2-w, 1/2-w) \quad 0 < w < 1/4$ $\Sigma : (0, v, 0) \quad 0 < v < 1/2$ $D : (u, 1/2-u, 1/2) \quad 0 < w < 1/4$ $G : (-u, 1/2, u) \quad 0 < u < 1/2$	$4mm$ $3m$ $3m$ $mm2$ $mm2$ $mm2$

