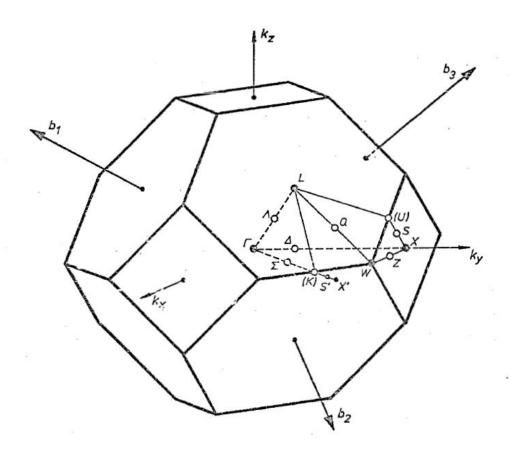
## FIRST BRILLOUIN ZONE OF FACE CENTERED CUBIC LATTICE

Studentproject WS10/11 by Leitner Matthias and Klinser Gregor



CONDITION:	$\vec{k} = u \cdot \vec{b_1} + v \cdot \vec{b_2} + w \cdot \vec{b_3}  (u, v, w)$	)
	a = b = c	
	$\alpha = \beta = \gamma = 90^{\circ}$	
		$P(\vec{k})$
Γ : (0,0,0)		m3m
X:(0,1/2,1/2)		4/ <i>mmm</i>
L : (1/2,1/2,1/2)		$\bar{3}m$
W: (1/4,3/4,1/2)		$\bar{4}2m$
U: (1/4,5/8,5/8)		mm2
K : (3/8,3/4,3/8)		mm2
$\Delta$ : $(0,v,v)$	0 < v < 1/2	4mm
$\Lambda : (w,w,w)$	0 < w < 1/2	3 <i>m</i>
$\Sigma$ : (u,2u,u)	$0 < u \le 3/8$	mm2
S: (2u,1/2+u,1/2+u)	$0 < u \le 1/8$	mm2
Z:(u,1/2+u,1/2)	0 < u < 1/4	mm2
Q: (1/2-u,1/2+u,1/2)	0 < u < 1/4	2

