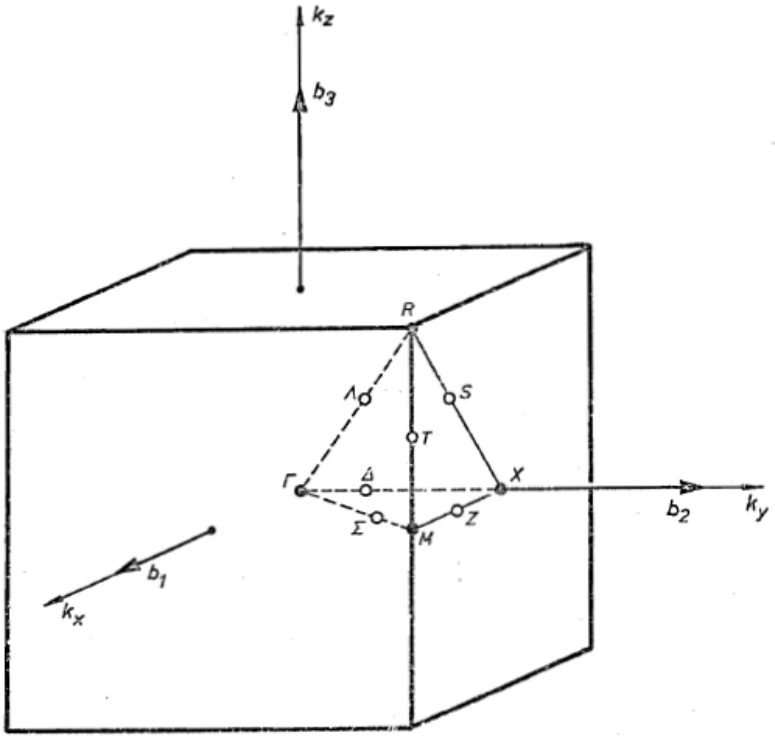
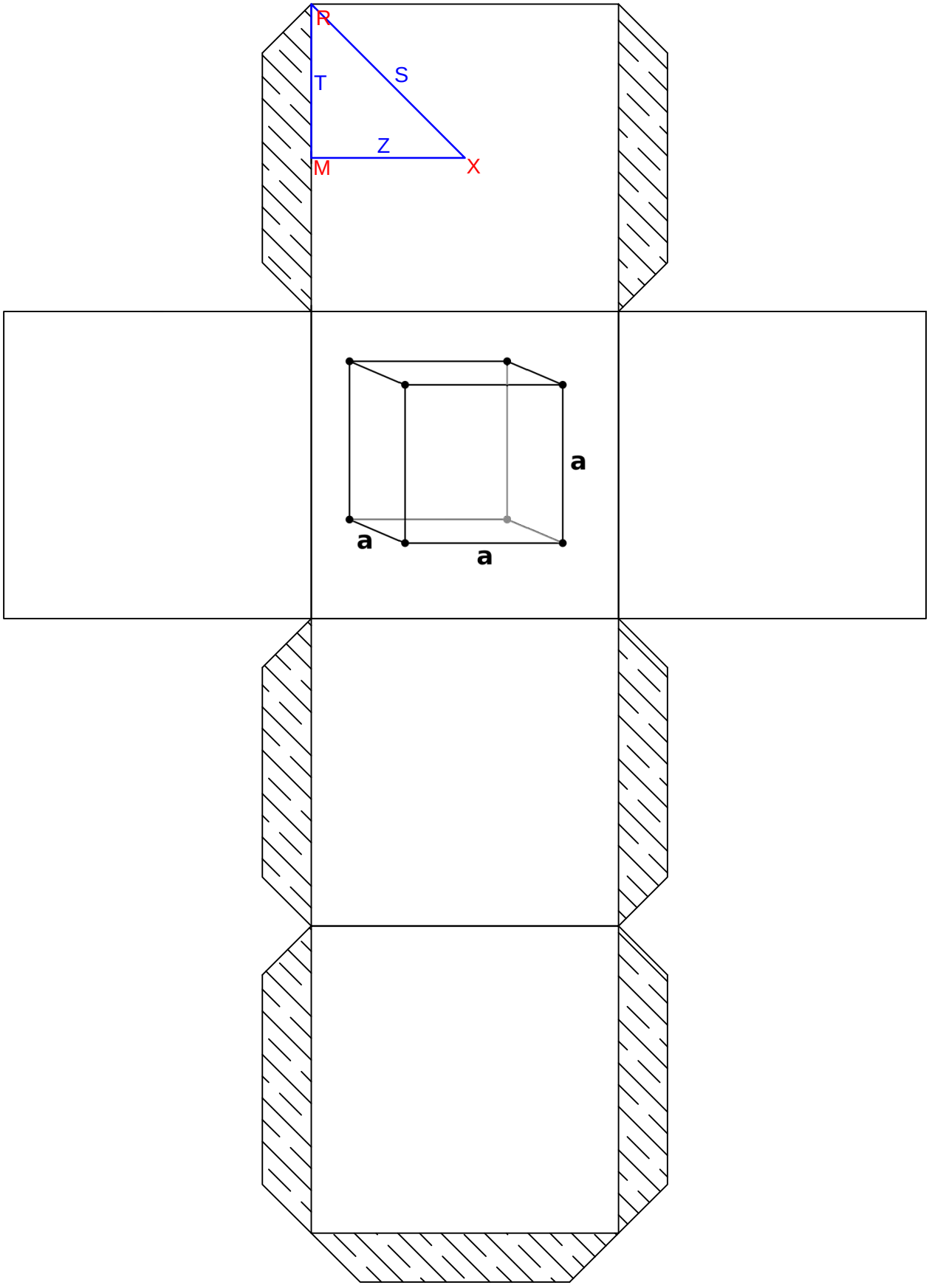
FIRST BRILLOUIN ZONE OF

SIMPLE CUBIC LATTICE

Studentproject WS10/11 by Leitner Matthias and Klinser Gregor



CONDITION:	$\vec{k} = u \cdot \overrightarrow{b_1} + v \cdot \overrightarrow{b_2} + w \cdot \overrightarrow{b_3} \quad (u, v, w)$ $a = b = c$ $\alpha = \beta = \gamma = 90°$	
		$P(\vec{k})$
Γ : (0,0,0)		$m3m$
R : (1/2,1/2,1/2)		$m3m$
X : (0,1/2,0)		$4/3mm$
M : (1/2,1/2,0)		$4/mmm$
Δ : $(0, v, 0)$	$0 < v < 1/2$	$4mm$
T : (1/2,1/2,w)	$0 < w < 1/2$	$4mm$
Λ : (w,w,w)	$0 < w < 1/2$	$3m$
Σ : (u,u,0)	$0 < u < 1/2$	$mm2$
S : (u,1/2,u)	$0 < u < 1/2$	$mm2$
Z : (u,1/2,0)	$0 < u < 1/2$	$mm2$


R
S
T
Z
M
X
a
a
a