

PG No. 4  $C_s$   $m$  (b-axis setting) [ monoclinic ]

\* generator :  $m_{010}$

\* conjugacy class

[1] : 1

[ $m_{010}$ ] :  $m_{010}$

\* symmetry operation

Table 1: Symmetry operations for 3d polar vector.

No.	tag	matrix (polar)	det
1	1	$\begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$	1
2	$m_{010}$	$\begin{bmatrix} 1 & 0 & 0 \\ 0 & -1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$	-1