

PG No. 3    $C_2$    2   (b-axis setting)   [ monoclinic ]

\* generator :  $2_{010}$   
\* conjugacy class  
[1] : 1  
[ $2_{010}$ ] :  $2_{010}$   
\* 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   | $2_{010}$ | $\begin{bmatrix} -1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & -1 \end{bmatrix}$ | 1   |