

PG No. 27  $D_{6h}$   $6/mmm$  [ hexagonal ]

Table 1: Representation matrices

*continued ...*

Table 1

*continued* .

Table 1

Irrep.	$m_{110} : \begin{bmatrix} \frac{1}{2} & -\frac{\sqrt{3}}{2} \\ -\frac{\sqrt{3}}{2} & -\frac{1}{2} \end{bmatrix}$	$m_{100} : \begin{bmatrix} -1 & 0 \\ 0 & 1 \end{bmatrix}$	$m_{010} : \begin{bmatrix} \frac{1}{2} & \frac{\sqrt{3}}{2} \\ \frac{\sqrt{3}}{2} & -\frac{1}{2} \end{bmatrix}$	$m_{1-10} : \begin{bmatrix} \frac{1}{2} & -\frac{\sqrt{3}}{2} \\ -\frac{\sqrt{3}}{2} & -\frac{1}{2} \end{bmatrix}$	$m_{120} : \begin{bmatrix} -1 & 0 \\ 0 & 1 \end{bmatrix}$	$m_{210} : \begin{bmatrix} \frac{1}{2} & \frac{\sqrt{3}}{2} \\ \frac{\sqrt{3}}{2} & -\frac{1}{2} \end{bmatrix}$