

PG No. 16 C_3 3 [trigonal]

Table 1: Representation matrices

| Irrep. | | | |
|--------|-----|--|---|
| | A | $1 : \begin{bmatrix} 1 \end{bmatrix}$ | $3_{001}^+ : \begin{bmatrix} 1 \end{bmatrix}$ |
| | E | $1 : \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ | $3_{001}^+ : \begin{bmatrix} -\frac{1}{2} & -\frac{\sqrt{3}}{2} \\ \frac{\sqrt{3}}{2} & -\frac{1}{2} \end{bmatrix}$ |
| | | | $3_{001}^- : \begin{bmatrix} -\frac{1}{2} & \frac{\sqrt{3}}{2} \\ -\frac{\sqrt{3}}{2} & -\frac{1}{2} \end{bmatrix}$ |