

A COMPLETE LIST OF g -VECTORS FOR \mathcal{A}_2

We recall that $\mathcal{A}_2 = \mathbb{F}Q/I$ is given by

$$Q : 1 \begin{array}{c} \xrightarrow{\alpha_1} \\ \xleftarrow{\beta_1} \end{array} 2 \quad \text{with } I : \langle \alpha_1 \beta_1 \rangle .$$

Then, the complete list of g -vectors for \mathcal{A}_2 is as follows.

(1) $\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$

(2) $\begin{pmatrix} -1 & 0 \\ 0 & -1 \end{pmatrix}$

(3) $\begin{pmatrix} 1 & 0 \\ 1 & -1 \end{pmatrix}$

(4) $\begin{pmatrix} -1 & 1 \\ 0 & 1 \end{pmatrix}$

(5) $\begin{pmatrix} 1 & -1 \\ 0 & -1 \end{pmatrix}$

(6) $\begin{pmatrix} -1 & 1 \\ -1 & 0 \end{pmatrix}$