

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

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

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

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

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

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

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

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

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

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