The Problematic Relation

Quiver: 6 vertices with relations $1 \to 4$ and $3 \to 6$.

Projective resolution of the injective modules (matrix):

$$
\begin{pmatrix}
0 & 0 & 1 & 0 & -1 & -1 \\
0 & 0 & -1 & 0 & 0 & 0 \\
1 & 0 & 0 & 0 & 1 & 1 \\
0 & 0 & 0 & 0 & -1 & 0 \\
0 & 1 & 1 & 0 & 0 & -1 \\
0 & 0 & 0 & 1 & 1 & 1
\end{pmatrix}
$$

Jordan form:

$$
\begin{pmatrix}
1 & 0 & 0 & 0 & 0 & 0 \\
0 & \frac{1}{2} - i\frac{\sqrt{3}}{2} & 0 & 0 & 0 & 0 \\
0 & 0 & \frac{1}{2} + i\frac{\sqrt{3}}{2} & 0 & 0 & 0 \\
0 & 0 & 0 & -1 & 1 & 0 \\
0 & 0 & 0 & 0 & -1 & 0 \\
0 & 0 & 0 & 0 & 0 & 1
\end{pmatrix}
$$