Erratum - Noetherianity up to conjugation of locally diagonal inverse limits

Arthur Bik

The proof of Lemma 10 should be:

Proof. First suppose that $l = r = 0$. In this case, the lemma reduces to the well-known statement that the matrices corresponding to $\beta_1$ and $\beta_2$ are congruent. In general, Schur’s Lemma splits the lemma into the cases $z = 0$ and $l = r = 0$. Suppose that $z = 0$. If $G$ is of type B, C or D, then Schur’s Lemma also shows the matrices corresponding to $\beta_1$ and $\beta_2$ are Kronecker products of $l \times l$ matrices with the identity matrix. If $G$ is of type A, then Schur’s Lemma shows that $l = r$ and that the matrices corresponding to $\beta_1$ and $\beta_2$ are Kronecker products of $l \times l$ matrices with the matrix

\[
\begin{pmatrix}
0 & I \\
-I & 0
\end{pmatrix}
\]

Here we order the copies of $V$ and $V^*$ alternatingly. This reduces the case $z = 0$ to the case $l = r = 0$. □

Thanks to Mateusz Michałek for pointing out the error in the original proof.