CORRECTIONS TO "MONODROMIC SYSTEMS ON AFFINE FLAG MANIFOLDS"

George Lusztig

Department of Mathematics, Massachusetts
Institute of Technology, Cambridge, MA 02139

§8 of [2] contains a blunder; I am indebted to Alexander Kirillov, Jr. for pointing that out to me.

In the second sentence of 8.2, replace $\zeta = \exp(\frac{\pi\sqrt{-1}}{\sigma+g})$ by $\zeta = \exp(\frac{\pi\sqrt{-1}}{D(\sigma+g)})$.

The subsequent sentences of 8.2 and all of 8.3 should be deleted. Replace the text of 8.4, starting with the second sentence, by:

Now the construction of Kazhdan and Lusztig (1993,1994) provides an equivalence of categories $\Phi_\sigma : \mathcal{O}_{\sigma+g} \to \mathcal{E}(\zeta)$ even without the symmetry assumption. The proof is the same as in the symmetric case, except that, in the case where $D > 1$ and D divides $-p'$, one has to use the discussion of $\mathcal{E}(\zeta)$ given in Andersen and Paradowski (1995) which establishes the strong linkage principle and the fact that there are sufficiently many projective objects.

In 9.1, replace $\mathcal{O}_{-l-g}$ by $\mathcal{O}_{-l}$.

In 9.2, replace $\mathcal{O}_{-(l/D)-g}$ by $\mathcal{O}_{-l/D}$ and (twice) $\mathcal{E}(\exp(-\frac{\pi\sqrt{-1}D}{l}))$ by $\mathcal{E}(\exp(-\frac{\pi\sqrt{-1}}{l}))$.

In 9.3, replace the third sentence by the following text.

The same succession of steps allows us (this time, unconditionally) to express the characters of the simple objects of $\mathcal{E}(\zeta)$ in terms of the $P_{a',a}$ for W; here ζ is any root of 1 whose order is not too small and is divisible by D.

In the introduction one should replace "1979" by "1993, 1994".

References

[1] H. H. Andersen and J. Paradowski, *Fusion categories arising from semisimple Lie algebras*, Comm. Math. Phys. **169** (1995), 563-588.

[2] G. Lusztig, *Monodromic systems on affine flag manifolds*, Proc. R. Soc. Lond. A **445** (1994), 231-246.

Typeset by $\mathcal{A}\mathcal{M}\mathcal{S}$-TEX