Olivier Dudas has kindly pointed out that Lemma 3.2 and Proposition 3.3 of [1] are wrong in the stated generality. The error occurs in the last statement of Lemma 3.2, claiming that $^*R^G_M(T) \in kG\text{-mod}_Z$. This is, however, true under the following additional hypothesis, as the proof of Lemma 3.2 shows.

**Hypothesis.** If $x \in N$ such that $^xL \leq M$, then $R^M_M(^xX) \cong Z$.

The results of Sections 4 and 5 of [1] are not affected by this error, as the above hypothesis is satisfied if $L$ and $M$ are pure Levi subgroups of $G := G_n$ and $X$ is a weakly cuspidal unipotent $kL$-module.

To see this, we adopt the notation of [2, Subsections 2.1, 2.2]. If $G$, $L$ and $M$ are as above, we may assume that $M = L_J$ and $L = ^yL_I$ for some $y \in N$ and with $I, J \subseteq S$ left connected. Now let $x \in N$ such that $^xL \leq M$, i.e. $^xyL_I \leq L_J$. It follows that there is $w \in W$ with $^wW_I \leq W_J$. Writing $w = ucv$ with $u \in W_J$, $c \in D_{IJ}$ and $v \in W_I$, it follows that $^cw_I \leq W_J$, i.e. $^cw_I = ^cw_I \cap W_J = W_{q \cap J}$. Now $q \cap J$ is left connected by the lemma of [2, Subsection 2.2]. As $|^cW_I| = |W_I|$, this implies that $^cw_I = W_I$. In turn, $^uw_I = ^ucw_I = ^wW_I$. It follows that $^xL$ and $L_I$ are conjugate by an element of $N \cap M$. As $L \leq M$, the analogous argument applies to $L$ and $L_I$. Thus there is $z \in N \cap M$ such that $^z^xL = L$. Replacing the pair $(^xL, ^xX)$ by $(^z^xL, ^z^xX)$, we may therefore assume that $x \in N_G(L)$. Now $x$ fixes every ordinary unipotent character of $L$. In turn, $x$ fixes every unipotent $\ell$-modular character of $G$ and thus $^xX \cong X$ as $kL$-modules. It follows that $R^M_M(^xX) \cong R^M_L(X) = Z$.

We take this opportunity to correct a notational twist in [2, Subsection 2.2]. In the lemma and the proof of the proposition of this subsection, the symbol $D_{IJ}$ has to be replaced by $D_{JI}$, the set of distinguished double coset representatives for $W_J \backslash W/W_I$.

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References


*Lehrstuhl D für Mathematik, RWTH Aachen University, 52062 Aachen, Germany*

*E-mail address: thomas.gerber@math.rwth-aachen.de*

*E-mail address: gerhard.hiss@math.rwth-aachen.de*