

## Erratum to “Twisted Yangians and Mickelsson algebras I”

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The purpose of this brief note is to correct a mistake in our article [KN]. In Proposition 5.9 there one should make an extra assumption that  $k < n$ , if  $n > 1$  and  $n$  is odd. If  $n > 1$ , one should replace the set  $\Delta_\sigma$  in that proposition by

$$\Delta_\sigma^0 = \Delta_\sigma \cap \Delta^0 = \{\eta \in \Delta^+ \cap \Delta^0 \mid \sigma(\eta) \notin \Delta^+\}$$

where  $\Delta^0$  the set of *compact roots* of the Lie algebra  $\mathfrak{f}_m$ . These are the weights  $\varepsilon_b - \varepsilon_c$  where  $1 \leq b, c \leq m$  and  $b \neq c$ . The derivation of the proposition from Lemmas 5.5 to 5.8 remains the same. But in Lemmas 5.7 and 5.8 one should also assume that  $k < n$ , if  $n > 1$  and  $n$  is odd. If  $n > 1$ , the expressions displayed in the statements of Lemmas 5.7 and 5.8 should be replaced respectively by

$$\partial_{\bar{a}k}^t x_{\bar{a}+1k}^s \quad \text{and} \quad (-1)^s \partial_{1\bar{k}}^s$$

without any extra factors. In each of Lemmas 5.5 to 5.8, one should also add  $\bar{J}'$  to the sets of generators of the left ideal specified at the end of the statement of the lemma. The proofs of Lemmas 5.7 and 5.8 for  $n = 1$ , as well as the proofs of Lemmas 5.5 and 5.6 for any  $n \geq 1$ , remain unchanged. The changes are in the proofs of Lemmas 5.7 and 5.8 for  $n > 1$ , where one observes that all but the first terms of the sums appearing there actually vanish.

### References

- [KN] S.Khoroshkin and M.Nazarov. Twisted Yangians and Mickelsson algebras I. *Selecta Math.* **13** (2007), 69–136.

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