Correction to "On algebras satisfying symmetric identities"

By

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We use the notation of [1]. The statement of Lemma 4.6 is false, because $S(\lambda) \otimes S(1^n)$ is isomorphic to the dual of the module $S(\lambda')$, which can be non-isomorphic to $S(\lambda')$ in positive characteristic. Therefore what we get instead of Theorem 4.3 is the following:

Theorem. *Assume that the K -algebra R satisfies the identity $d_h(x; y) = 0$. If for $\lambda \in \text{Par}_p(n)$ the first column of the Young diagram of $\bar{\lambda}$ is of length at least h , then the multiplicity of $\chi_{\bar{\lambda}}$ in the cocharacter series $\chi_n(R)$ equals 0.*

The problem of finding $\bar{\lambda}$ is difficult even in the case when both λ and λ' are p -regular (see the papers [3] and [4]). In [2] an algorithm is given by which one can determine $\bar{\lambda}$ for any $\lambda \in \text{Par}_p(n)$.

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References

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