

Review of “Irreducible subquotients of generic Gelfand-Tsetlin modules over $U_q(\mathfrak{gl}_n)$ ”,
by V. Futorny, L.E. Ramírez, J. Zhiang

Recommendation: Accept with minor changes.

All problems with the previous text have been addressed, so I recommend the article for publication. I add some comments, mostly on typos and small corrections.

Page 2, line 7. The h in the exponent should be regular, not fraktur. It should also be defined somewhere. Let me insist that q^x does not make sense in general and must be explicitly defined as notation for e^{hx} .

Page 3, lines 3-6. The statement that the center is generated by the elements c_{mk} needs a reference.

Page 4, proof of Theorem 4.3. There are still some σ_i 's which should be $\sigma(i)$'s.

Page 5, proof of Proposition 5.3. There's no need to do this by contradiction, the proof is straightforward.

Page 5, Theorem 5.4. Γ should be Γ_q .

Page 7, Definition 6.1. The definition of $v_{p,s,u}(T(R))$ is missing.

Page 10, Theorem 7.7. If I understand correctly, the basis of M consists of tableaux which differ from $T(v)$ in only one entry, and the difference is between 0 and d . Such a basis has cardinality $\frac{n(n-1)}{2}d$. I suppose the authors mean that the basis consists of tableaux $T(w)$ with $w_{ni} = v_{ni}$ and $0 \leq w_{ki} - v_{ki} < d$ for all $k < n$.