

March 27, 2023

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*Quasi-derivations of $U\mathfrak{gl}_n$ and
the argument shift method.*

In my talk I will tell, how one can to a certain degree transfer the “argument shift method” (used to obtain commutative subalgebras in Poisson algebras) to the universal enveloping algebra $U\mathfrak{gl}_n$. To this end I will use the “quasi-derivations” of this algebra, i.e. the set of linear operators on $U\mathfrak{gl}_n$, constructed by Gurevich, Pyatov and Saponov. I will speak about the definition and the properties of these operators and then show that the iterations of these operators on the generators of the center of $U\mathfrak{gl}_n$ commute with each other.

SCIENTIFIC SEMINAR
“DIFFERENTIAL GEOMETRY AND APPLICATIONS”

headed by Academician of RAS Anatoly T. Fomenko

The seminar takes place online in ZOOM on Mondays
from 4:45 p.m. to 6:20 p.m. (Moscow time)

To get the zoom-ref, or to apply for your talk on the seminar, please, write to
the seminar secretary Alexey A. Tuzhilin tuz@mech.math.msu.su
Announcements of previous talks can be found on the seminar website
<http://dfgm.math.msu.su/chairsem.php>