1131-17-196 **Elena Poletaeva*** (elena.poletaeva@utrgv.edu). *On the finite W-algebra for Lie superalgebra Q(n).*

A finite W-algebra is a certain associative algebra attached to a pair (g, e), where g is a classical Lie superalgebra and $e \in g$ is an even nilpotent element.

J. Brown, J. Brundan and S. Goodwin described finite W-algebras for $gl(m|n)$ associated to even regular nilpotent e as truncations of shifted super-Yangians of $gl(1|1)$.

We study the finite W-algebra for the queer Lie superalgebra $Q(n)$ associated with non-regular even nilpotent coadjoint orbits in the case when the corresponding nilpotent element has Jordan blocks each of size l. We prove that this finite W-algebra is isomorphic to a quotient of the super-Yangian of $Q(\frac{n}{l})$.

It is a joint work with V. Serganova. (Received July 14, 2017)