

Geometry, Physics, and Representation Theory  
Northeastern University

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## **Classical and Finite $W$ -algebras of Type $A$ .**

### **Abstract**

We describe a method for constructing the generators, and their commutation relations, for the finite  $W$ -algebras of type  $A$ . We also see how the analogue result in the classical affine case can be used to construct integrable Hamiltonian hierarchies of Lax type.