

1135-16-848

**Natasha Rozhkovskaya\*** (rozhkovs@math.ksu.edu). *Explicit constructions of Segal-Sugawara vectors.*

The center of an affine vertex algebra at the critical level of a simple finite-dimensional Lie algebra is a commutative algebra. In this talk we will report on the explicit formulas for generators, the Segal-Sugawara vectors, in the case of exceptional Lie algebra of type  $G_2$  ( which is a joint work with A. I. Molev and E. Ragoucy). (Received September 15, 2017)