
REIMUNDO HELUANI, IMPA

Chiral homology and rationality of vertex algebras

I will discuss a question of Beilinson and Drinfeld regarding the vanishing of the higher chiral homology of V (the integrable quotient of the affine Kac-Moody vertex algebra at positive integral level). In particular I will describe an approach (joint with J. Van Ekeren) that relates this question in the particular case of Elliptic curves to classical homological constructions on the Zhu algebra of V .