

1151-17-26

Fei Qi*, Department of Mathematics, University of Manitoba, 420 Machray Hall, 186 Dysart Road, Winnipeg, Manitoba R3T2N2, Canada. *Meromorphic open-string vertex algebra on the two-dimensional sphere*. Preliminary report.

Meromorphic open-string vertex algebra (MOSVA hereafter) is a noncommutative generalization introduced by Yi-Zhi Huang in 2012. He also proved that the parallel sections of the tensor algebra bundles over a Riemannian manifold naturally generate a MOSVA, where vertex operators do not satisfy commutativity when the curvature of the manifold is nonzero. In this talk, I will present the example of MOSVA built from the simplest nonflat Riemannian manifold, the 2-dimensional sphere, and discuss some interesting properties. (Received July 19, 2019)