On the FRT-construction in quantum vertex algebra theory

Slaven Kožić

University of Zagreb Faculty of Science, Department of Mathematics
Bijenička cesta 30, 10000 Zagreb, Croatia

Abstract

In this talk, we recall the notion of quantum vertex algebra and the FRT-presentation of the Yangian in type A. Next, we present a recent construction of certain new classes of quantum vertex algebras, such that their $\mathcal{S}$-locality is of the FRT-form, and some preliminary results on their representation theory and their braiding map. This is a joint work with Lucia Bagnoli and Marijana Butorac.