

2025 年度 第 4 回 数学談話会

【日 時】 2025 年 12 月 19 日 (金) 16 : 30 ~ 17 : 30

【場 所】 富山大学理学部 B 棟 1 階 B121 室

【講演者】 Fengchang Li 氏 (南京大学)

【講演題目】 An introduction to (affine) Nichols algebras

【講演概要】

We introduce briefly the theory of Nichols algebras, especially the case of diagonal type and the generalized root system theory. We also explain the relationship between quantum groups and Nichols algebras. Then we introduce affine Nichols algebras and the classification of rank 2 case. In particular we will describe two important examples in this classification, the one corresponds to quantum affine algebra $U_v(\widehat{\mathfrak{sl}}_2)$, which is very classical, the other one corresponds to quantum affine superalgebra $U_v(A(0,2)^{(4)})$, whose structure theory is significantly different from usual quantum affine (super)algebras. The talk is based on arxiv: 2410.04502.

＊16 時よりお茶を準備してお待ちしております。

