Representation Day in USTC (IV)

Oct 24, 2020, USTC, Hefei

Oct. 24 (Saturday)

Time	Talk
9:30-10:00	Arrival
10:00-10:50	汪永杰（合肥工业大学）
11:00-11:50	李换换（安徽大学）
12:00-14:00	Lunch Break
14:00-14:50	杜磊（安徽大学）
15:00-15:50	陈智（合肥工业大学）
16:00-16:30	Discussion/Departure

Lecture Room: 管理科研楼 1318

组织者：陈小伍，乐珏，汪任，叶郁

Abstracts

Yongjie Wang, Quantum queer superalgebras and related problems

In this talk, we will review some basic facts about quantum queer superalgebras and their centralizer algebras of the action of quantum queer superalgebras on tensor product of natural representation (mixed tensor product of natural representations and their dual spaces). Then we present the Howe duality for this superalgebras and some other results related to this superalgebras. This is based on my recent work joint with Z. Chang and N. Gao.

Huanhuan Li, A monoid for a Leavitt path algebra

We will talk about a monoid for a Leavitt path algebra associated to a directed graph. We can show a connection between the geometry of the graph and the structure of the monoid. This talk is based on a joint work with Roozbeh Hazrat.

Lei Du, A construction of Lie Bialgebras From Lie Coalgebras

A construction of Lie bialgebras from Lie coalgebras is given by using differentials of some antisymmetric bilinear forms. As applications Lie coalgebras of dimension less than 3 and an infinite-dimensional Lie coalgebra introduced by W. Michaelis are discussed.

Zhi Chen, 一些新的从 Hecke 代数到 Temperley-Lieb 代数的同态

众所周知存在从 ADE 型 Hecke 代数到对应类型的 Temperley-Lieb 代数的较自然的满同态。我们发现从非 ADE 型 Hecke 代数也具有到某些类型的 Temperley-Lieb 代数的有趣的同态。利用这种同态能够恰好"实现"出二面体型 Hecke 代数的所有二维不可约表示。在这些同态的构造过程中"邂逅"了切比雪夫多项式。