

数理物理セミナー

2024 年 12 月 16 日(月)

16:20–17:20(2 号館 609 教室)

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Painlevé VI, symmetries, and clusters

The sixth Painlevé equation (PVI) admits a native $sl_2(\mathbb{C})$ -Fuchsian isomonodromy representation. Taking the multiplicative middle convolution of a higher Teichmüller coordinatization for the corresponding Fuchsian monodromy group, we give Okamoto's birational transformation of PVI a monodromic realization in the language of cluster X -mutations. The explicit mutation formula is given dual characterizations in geometric terms of the colored associahedron and star-shaped fat graphs, expanding the cluster state of the art for PVI.

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