

Supersymmetrizing the map between W symmetry and affine Yangian

Saturday 7 July 2018 09:00 (30 minutes)

Higher spin symmetry and integrability are two different types of symmetry structures with strong constraining power. I will explain an interesting and useful map between the two in the example of the W symmetry and affine Yangian of $\mathfrak{gl}(1)$. Then I will explain how to supersymmetrize this map via gluing. This method then allows us to construct new types of affine Yangian algebras.

Author: LI, Wei (Institute of Theoretical Physics, Chinese Academy of Sciences)

Co-authors: Prof. GABERDIEL, Matthias (ETH Zurich); Dr PENG, Cheng (Brown University); Dr ZHANG, Hong (Institute of Theoretical Physics, Chinese Academy of Sciences)

Presenter: LI, Wei (Institute of Theoretical Physics, Chinese Academy of Sciences)

Session Classification: Formal Theory Development

Track Classification: Formal Theory Development