

# Quasi-particle fermionic formulas for $(k, 3)$ -admissible configurations

Talk

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(joint work with Mirko Primc)

We construct new monomial quasi-particle bases of Feigin-Stoyanovsky's type subspaces for affine Lie algebra  $\mathfrak{sl}(3, \mathbb{C})^\sim$  from which the known fermionic-type formulas for  $(k, 3)$ -admissible configurations follow naturally. In the proof we use vertex operator algebra relations for standard modules and coefficients of intertwining operators.

MSC2010: Primary 17B67; Secondary 17B69, 05A19.

Keywords: Quasi-particle bases, Feigin-Stoyanovsky type subspaces, Affine Lie algebras, Fermionic-type formulas, Admissible configurations.

Section: 2.