

1131-17-161

Weiqiang Wang* (ww9c@virginia.edu). *Character formulae in exceptional super category \mathcal{O} .*

There are 3 simple exceptional Lie superalgebras over \mathbb{C} , that is, $D(2|1; a)$ depending on a complex parameter a , $G(3)$, $F(3|1)$, and they appear as part of the classification of the so-called basic Lie superalgebras. In recent years, there has been conceptual Kazhdan-Lusztig type solutions to the irreducible character problem in the BGG category \mathcal{O} for basic classical Lie superalgebras. In this talk, we shall describe the character formulae in the exceptional BGG category \mathcal{O} for $D(2|1; a)$ and $G(3)$. This is joint work with Shun-Jen Cheng (Taipei). (Received July 12, 2017)