HOMA ROUDINI, University of Ottawa

Explicit Classification of Irreducible Real Modules of Real Forms of $\mathfrak{gl}(m|n)$

Sahi, Salmasian, and Serganova established a general framework for classifying finite-dimensional irreducible real modules of a broad class of real Lie superalgebras, reducing the problem to the study of parity and conjugation functors on irreducible complex modules.

Building on their work, we obtain explicit classification criteria for various real forms of $\mathfrak{gl}(m|n)$. In particular, we describe how highest weights determine the possible endotypes of irreducible real modules.