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Super-biderivations and linear super-commuting maps on the super W-algebra $\tilde{W}(2, 2)$.


Summary: Super-biderivations of the super W-algebra $\tilde{W}(2, 2)$ are characterized. In particular, it is shown that $\tilde{W}(2, 2)$ admits a non-inner super-biderivation. As an application, all linear super-commuting maps on the super W-algebra $\tilde{W}(2, 2)$ are described.

MSC:
17B40 Automorphisms, derivations, other operators for Lie algebras and super algebras
17B68 Virasoro and related algebras
17B05 Structure theory for Lie algebras and superalgebras

Keywords:
Lie superalgebra; super-biderivation; linear super-commuting map; super W-algebra

Full Text: DOI

References:


[6] W. Zhang and C. Dong, W-algebra $W(2, 2)$ and the vertex operator algebra $L(1, 0) \boxplus L(1, 0)$, Comm. Math. Phys. 285 (2008), 991-1004, 22 - Zbl 1194.17015


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