

Ilka Brunner (LMU München)
Nils Carqueville (Universität Wien)
Hans Jockers (JGU Mainz)
Peter Mayr (LMU München)
Simone Noja (Universität Heidelberg)
Ivo Sachs (LMU München)
Johannes Walcher (Universität Heidelberg)

JOHANNES GUTENBERG
UNIVERSITÄT MAINZ



RIND seminar on Mathematical Physics and String Theory

May 16, 2022 at 4 p.m.
None

Joint seminar series on Mathematical Physics and String Theory

Fabian Hahner
Universität Heidelberg

Derived pure spinor superfields

The pure spinor superfield formalism is a systematic way to construct supersymmetric multiplets from modules over the ring of functions on the nilpotence variety. After a short review of the technique, I present its derived generalization and explain how the derived formalism yields an equivalence of dg categories between multiplets and modules over the Chevalley--Eilenberg algebra of supertranslations. This equivalence of categories is closely related to Koszul duality. If time permits, I will comment on applications to six-dimensional supersymmetry.

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