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

JG|U

RIND seminar on Mathematical Physics and String Theory

May 23, 2022 at 4 p.m. c.t.
None

Joint seminar series on Mathematical Physics and String Theory

Leonardo Rastelli
Stony Brook U.

On the 4D SCFTs/VOAs correspondence

I will describe some recent progress on the correspondence between four-dimensional ${\cal N=2}$ superconformal field theories (SCFTs) and two-dimensional vertex operator algebras (VOAs). In particular I will introduce the notion of the "Higgs scheme", an extension by nilpotent elements of the standard Higgs variety of an ${\cal N=2}$ SCFT, which plays a natural role in the associated VOA.
Unlike the Higgs variety, theHiggs scheme appears to be a perfect invariant, i.e. it conjecturally fully characterizes the SCFT.

Contact:
Mascha Ringe

userID: mringe
userID@uni-mainz.de