

Institut Henri Poincaré
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String Theory in Greater Paris

Rencontres Théoriciennes
“Supergravité, théorie des cordes et théorie M”

Jeudi 18 Fevrier 2016, 11:45

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Algebraic structure of Killing superalgebras and its applications

A supersymmetric supergravity backgrounds has an associated Lie superalgebra generated by the Killing spinors : the Killing superalgebra, which is a useful invariant of the supergravity background. I will describe the algebraic structure of such Killing superalgebras and two immediate applications of this fact : 1) the classification of supersymmetric supergravity backgrounds and 2) the determination of geometries admitting rigidly supersymmetric field theories. This is joint work with Paul de Medeiros and Andrea Santi.

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<http://string.lpthe.jussieu.fr>
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