

Institut Henri Poincaré
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String Theory in Greater Paris

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

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Supergeometry at Work

How useful is the supergeometry to formulate supersymmetric quantum field theories ? For supergeometry, we mean the full technology of the supermanifolds, with super differential forms, integral forms, the Cartan calculus, the Berezin integral and the geometric integration. On the other side, supersymmetric and supergravity theories have been initially formulated in components and, later, in the compact and convenient language of superfields. We present a unified view on these aspects and we show how the supergeometry encompasses all superspace (and component) formulations of the same theory.

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Retrouvez les activités de la communauté parisienne de théorie des cordes sur
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