



ID de Contribution: 42

Type: **Non spécifié**

## Supergravity : finite after all ?

*lundi 3 mars 2008 18:40 (20 minutes)*

Supergravity was once viewed as a possible solution to the ultraviolet problem of quantum gravity, but subsequent experience dampened the enthusiasm for this possibility, yielding instead to the expectation that only superstring theory can give an acceptable quantum theory. Recent advances in computation, however, raise once more the question whether the maximal  $N=8$ ,  $D=4$  supergravity might in the end be an ultraviolet theory.

We will discuss the possibilities, making particular reference to the related ultraviolet structure of super Yang-Mills theory in various higher dimensions.

**Auteur principal:** Prof. STELLE, Kellogg (Imperial College London)

**Orateur:** Prof. STELLE, Kellogg (Imperial College London)

**Classification de Session:** Searches, Top, B, Theory