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GAUGED SUPERGRAVITIES

by

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The low-energy effective theories describing generic string compactifications are so-called gauged supergravities: deformations of the standard abelian supergravity theories. The deformation parameters can be identified with the various parameters describing the compactification geometry and possible fluxes. In these lectures, I review in detail the construction of gauged supergravities whose structure is to a large extent determined by the underlying symmetry groups. I will illustrate the construction and the relation to higher-dimensional compactifications in several explicit examples.

	February 9	February 10
09:30-10:30	Lecture 1	Lecture 4
11:00-12:00	Lecture 2	Lecture 5
14:30-15:30	Lecture 3	Seminar: <i>Gauged Supergravities and Flux Compactifications</i>

- Some references:**
- 1) H. Samtleben: <http://arxiv.org/abs/0808.4076>
 - 2) A. Van Proeyen: <http://arxiv.org/abs/hep-th/0301005>
 - 3) B. de Wit: <http://arxiv.org/abs/hep-th/0212245>
 - 4) P. Fre: <http://arxiv.org/abs/hep-th/0102114>

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Place: IMBM Seminar Room, Boğaziçi University
http://www.imbm.org.tr/campus_map.htm