



istanbul matematiksel bilimler merkezi
istanbul center for mathematical sciences

A Short Course on
SUPERGRAVITY

by

Henning Samtleben

University of Lyon, ENS

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The aim of these lectures is to give the basic ideas of supergravity theories, in particular to introduce the minimal supersymmetric extension of Einstein's General Relativity. Supergravity is a main ingredient of String Theory which is currently the best candidate for a theory of quantum gravity.

| | February 5 | February 6 |
|-------------|-------------------|--|
| 09:30-10:30 | Lecture 1 | Lecture 4 |
| 11:00-12:00 | Lecture 2 | Lecture 5 |
| 14:30-15:30 | Lecture 3 | Colloquium: <i>String Theory, Extra Dimensions and Hidden Symmetries</i> |

Some references: 1) H. Samtleben: <http://arxiv.org/abs/0808.4076>
2) A. Van Proeyen: <http://arxiv.org/abs/hep-th/0301005>
3) Y. Tanii: <http://arXiv.org/abs/hep-th/9802138>

Organizers: Tekin Dereli, Nihat Sadık Değer

Contact: sadik.deger@boun.edu.tr

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