

15/01/2024

SUSY & SUGRA HT 2024

Lecturer: *Dr Michèle Levi*

Course Information

Area Quantum Field Theory, Particle Physics and String Theory
Department Mathematical Institute University of Oxford
Credit 1 Unit

Prerequisites

Groups and Representations, Quantum Field Theory; Advanced Quantum Field Theory

Course material

- Weinberg, *The Quantum Theory of Fields Vol 3*, 2000 [chps 24-27]
- Wess & Bagger, *Supersymmetry and Supergravity*, 1992 [chps 1-10,22 apps A-C]

Further useful books

- Freedman & Van Proeyen, *Supergravity*, 2012 [chps 6,14 for SUSY]
- Weinberg, *The Quantum Theory of Fields Vols 1-2*, 2000
- Peskin & Schroeder, *An Introduction to Quantum Field Theory*, 1995

Location

Lectures take place in lecture room **L5**

Schedule

Hillary term Weeks 1-8

Tuesday 15:00

Thursday 12:00

Exam date

No exam

Course grading

The final grade is based on 1 component:

- 4 problem sheets to be submitted to **Tutor/TA Ms Tabea Sieper** following weeks 2,4,6,8