

16/01/2025

SUSY & SUGRA HT 2025

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 (QFT); Advanced QFT, General Relativity

Course material

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

Further useful textbooks

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

Location

Lectures take place in lecture room **L5**

Schedule

Hilary term Weeks 1-8:

Tuesday 16:00

Wednesday 15:00

Course grading

Mini-project: released HT wk 8 Fri **March 14th** -- submission deadline Fri **April 4th**

Tutor + Teaching Assistant

Mr Lucas Leung

Tutorials take place in class room **C2** on even **Fridays** (weeks 2, 4, 6, 8)

12:00-13:30

13:30-15:00