

## Introduction

You may opt to offer a dissertation as one, or with special permission two, of your ten units. A dissertation offers a substantial opportunity for independent study and research, and would be undertaken under the guidance of a member of the Department of Physics or the Mathematical Institute. A dissertation involves investigating and then presenting in writing a particular area of Mathematical Physics or Theoretical Physics; you would not be required (but may) obtain original results.

## Choosing a topic

A list of possible dissertation topics is given in Appendix D of the course handbook but you are not limited to this list and may propose your own topic instead. If you have an idea for your own dissertation topic, you should discuss this with your course adviser, the director of studies, or one of the course lecturers who will be able to suggest a potential supervisor.

## Applying to offer a dissertation

If you intend to undertake a dissertation you will need to notify the Joint Supervisory Committee. As such you are advised to start thinking about your dissertation and make initial contact with potential supervisors, when necessary, during Michaelmas term.

Students wishing to apply to take one of the dissertations listed in the handbook should complete the on-line application form (<http://www.maths.ox.ac.uk/members/students/undergraduate-courses/mmathphys-msc-mtp/mmathphys-dissertation-applications>) by Monday of week 9 of Michaelmas term. The allocation of dissertation topics to students will be decided by the Director of Studies in consultation with the supervisors.

Students wishing to propose their own topic need to submit an online application via <http://www.maths.ox.ac.uk/members/students/undergraduate-courses/mmathphys-msc-mtp/mmathphys-dissertation-applications> by Monday of week 2 of Hilary term. You should submit to the Joint Supervisory Committee a typed abstract of at least 100 words (but no more than one A4 sheet) together with a list of the main references you will be using. You should discuss your abstract with your proposed supervisor before submitting your application. The Committee will consider all abstracts at its meeting in week 3 of Hilary term and communicate its decision to students as soon as possible thereafter (abstracts submitted before the end of Michaelmas term will be considered earlier).

If you wish to offer a double unit dissertation, you should obtain permission for the Course Director (by emailing [mathematical.physics@maths.ox.ac.uk](mailto:mathematical.physics@maths.ox.ac.uk)) prior to submitting your application form.

## Working on your dissertation

You should plan on beginning work on your dissertation soon after your abstract has been approved. You are advised to bear in mind that you will need to use your time in the Easter vacation and early Trinity

term wisely to balance preparing for the Trinity term exams, working on your dissertation, and completing work for other courses you may be taking.

## **Supervision arrangements**

You can expect to have an initial meeting with your supervisor to discuss the dissertation you are undertaking, and then may meet with them again once or twice while you are working on your dissertation. Students undertaking a two unit dissertation can expect to meet with their supervisor three or four times while working on it. Your supervisor will read and provide feedback on the final draft of your dissertation (provided that it is submitted to them at least two weeks before the submission deadline).

## **Submitting your dissertation for assessment**

The submission deadline for dissertations is noon on Monday, week 5 of Trinity term. Students will be required to submit three bound copies of their dissertation, together with a declaration of authorship form, to the Chair of Examiners, Mathematical and Theoretical Physics, c/o Examination Schools, High Street, Oxford, OX1 4BG. Please note the information in the exam conventions regarding the importance of submitting your work on time.

The submitted dissertation should conform to the following points.

- The dissertation must include an abstract and a bibliography.
- The dissertation must be word-processed and have a font size of 12pt.
- The text should be double spaced and the dissertation printed single-sided.
- The dissertation should be spiral-bound or soft-bound.
- The dissertation should have a title page which includes the following:
  - the title of dissertation,
  - the candidate’s examination number,
  - the title of the candidate’s degree course,
  - the term and year of submission.
- Its length should not exceed 30 pages for a single unit and 60 pages for a double unit. The page count may exclude any table of contents, diagrams, tables, bibliography and the texts of computer programs. However any footnotes and appendices must be included.

## **Assessment of dissertations**

Please see section 4 and 8.1 of the exam conventions for details of how the dissertations will be assessed.

## Plagiarism

Plagiarism is presenting someone else's work or ideas as your own, with or without their consent, by incorporating it into your work without full acknowledgement. All published and unpublished material, whether in manuscript, printed or electronic form, is covered under this definition. Plagiarism may be intentional or reckless, or unintentional. Under the regulations for examinations, intentional or reckless plagiarism is a disciplinary offence. Please see the University's guidance on plagiarism

<http://www.ox.ac.uk/students/academic/guidance/skills/plagiarism> for further information.

## Oral Presentation

Students undertaking a dissertation will give their oral presentation on the subject of their dissertation. The presentation should not be longer than 20 minutes and there will be a 10 minute discussion session after the presentation. You are free to choose whether you want to give a blackboard presentation or use slides. Further details will be circulated to all students by email in Hilary term.

## Prizes for dissertations

The assessors of a dissertation that, in their view, shows particular originality and/or insight may recommend to the Examiners that this dissertation be given a commendation. A prize may be awarded by the examiners for the best dissertation.