Lectures proposed by the Board of the Faculty of Mathematics

MATHEMATICAL TRIPOS

Graduates of the University who are not reading for any University Examination may attend without payment any lectures proposed by the Faculty Board of Mathematics.

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PART IA

Part IA students are recommended to attend the induction session which will be held from 9.15 a.m. to 10.15 a.m. on Wednesday 3 October 2018, in the Babbage Lecture Theatre.

A meeting will be held for all Part IA students on Friday 3 May 2019 at 2.00 p.m. in the Babbage Lecture Theatre to discuss examinations and examination techniques.

For a personalised version of the timetable, which you can import into your own electronic calendar, please see [http://www.timetable.cam.ac.uk](http://www.timetable.cam.ac.uk).

### MICHAELMAS 2018

<table>
<thead>
<tr>
<th>Groups</th>
<th>Vector Calculus</th>
<th>Dynamics and Relativity</th>
<th>Numbers and Sets</th>
<th>Probability</th>
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<tbody>
<tr>
<td>M. W. F. 10, Babbage Lecture Theatre</td>
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### LENT 2019

<table>
<thead>
<tr>
<th>Vector Calculus</th>
<th>Analysis I</th>
<th>Metric and Topological Spaces**</th>
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<tbody>
<tr>
<td>DR A. ASHTON M. W. F. 10, Babbage Lecture Theatre</td>
<td>PROF. J. RASMUSSEN M. W. F. 11, Babbage Lecture Theatre</td>
<td>DR D. RANGANATHAN M. W. F. 10, Mill Lane Room 3 (Twelve lectures)</td>
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### EASTER 2019

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<tr>
<th>Metric and Topological Spaces**</th>
<th>Variational Principles*</th>
<th>Optimisation*</th>
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<tr>
<td>DR D. RANGANATHAN M. W. F. 10, Mill Lane Room 3 (Twelve lectures)</td>
<td>DR M. DUNAJSKI M. W. F. 11, Mill Lane Room 3 (Twelve lectures)</td>
<td>DR Q. BERTHET M. W. F. 12, Mill Lane Room 3 (Twelve lectures)</td>
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<tr>
<th>Optimisation*</th>
<th>Computational Projects*</th>
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<tbody>
<tr>
<td>DR Q. BERTHET M. W. F. 12, Mill Lane Room 3 (Twelve lectures)</td>
<td>DR R. JACK Tu. Th. 11, Mill Lane Room 3 (Eight lectures)</td>
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Information for non-examinable courses and the Mathematics with Physics option appears below on the next page.
The following courses, proposed by the Board of the Faculty of Mathematics, are non-examinable.

For the Mathematics with Physics Option only:
- **Numbers and Sets** (Lecture Classes)
  PROF. A. G. THOMASON and others
  Th. 12 & S. 6th Oct. 12, *Hopkinson Lecture Theatre*

For the Mathematics with Physics Option only:
- **Dynamics and Relativity** (Lecture Classes)
  PROF. P. H. HAYNES, DR J. M. EVANS
  Th. 12, *Hopkinson Lecture Theatre*

**Concepts in Theoretical Physics**
  PROF. J. D. BARROW
  Tu. Th. 12, *Mill Lane Room 3* (Eight lectures)

**Introduction to Mechanics**
  DR P. J. O’DONNELL
  M. W. 12, *Hopkinson Lecture Theatre* (Ten lectures)

**Mathematics with Physics Option:**

Students taking this option should attend Vectors and Matrices, Groups, Differential Equations, Analysis I, Vector Calculus and Probability from Part IA of the Mathematical Tripos, together with the lectures listed at [http://www.timetable.cam.ac.uk/](http://www.timetable.cam.ac.uk/) in Part IA Physics of the Natural Sciences Tripos. They should discuss with their Directors of Studies the potential benefits of attending the non-examinable lecture classes on Numbers and Sets and Dynamics and Relativity. They will also be required to do Physics practical work, and should attend at least the first lecture of the Scientific Computing Course. An Introductory talk will be held at 11.00 am on Wednesday 3 October 2018 in the Pippard Lecture Theatre (following the induction session for all Mathematics students at 9.15 am held in the Babbage Lecture Theatre).

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The lectures listed below are not organised by the Mathematics Faculty (which has no responsibility for them) but they are intended to be of interest to students of Mathematics.

**History of Mathematics**
  DR P. BURSILL-HALL
  W. F. 4, *Centre for Mathematical Sciences, MR3*

**History of Mathematics**
  DR P. BURSILL-HALL
  W. F. 4, *Centre for Mathematical Sciences, MR4*

**History of Science for Mathmos**
  DR P. BURSILL-HALL
  Th. 4, *Centre for Mathematical Sciences, MR3*

**History of Science for Mathmos**
  DR P. BURSILL-HALL
  Th. 4, *Centre for Mathematical Sciences, MR4*

**Ethics in Mathematics**
  DR M. CHIODO
  Tu. 4, *Centre for Mathematical Sciences, MR4*