MATHEMATICAL TRIPOS, PART IA

There will be an induction session for Part IA students at 9.00 a.m. on Wednesday 4 October 2023 in the Cockcroft Lecture Theatre.

A meeting will be held for all Part IA students on Thursday 14 March 2024 at 10.00 am in the Babbage Lecture Theatre to discuss examinations and exam techniques.

Lecture recordings will be available until 23:59 on the day of the following lecture.

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

Michaelmas 2023

<table>
<thead>
<tr>
<th>Course</th>
<th>Professor</th>
<th>Time</th>
<th>Theatre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vectors and Matrices</td>
<td>Prof. N. Peake</td>
<td>M. W. F. 10, Babbage Lecture Theatre</td>
<td></td>
</tr>
<tr>
<td>Differential Equations</td>
<td>Prof. A. D. Challinor</td>
<td>M. W. F. 11, Babbage Lecture Theatre</td>
<td></td>
</tr>
<tr>
<td>Numbers and Sets</td>
<td>Prof. J. Wolf</td>
<td>Tu. Th. S. 10, Babbage Lecture Theatre</td>
<td></td>
</tr>
<tr>
<td>Groups</td>
<td>Prof. H. Wilton</td>
<td>Tu. Th. S. 11, Babbage Lecture Theatre</td>
<td></td>
</tr>
</tbody>
</table>

Information for non-examinable courses and the Mathematics with Physics option appear on the next page.
The following courses, proposed by the Board of the Faculty of Mathematics, are non-examinable.

<table>
<thead>
<tr>
<th>Michaelmas 2023</th>
<th>Lent 2024</th>
<th>Easter 2024</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>For Mathematics with Physics Option only:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Numbers and Sets</strong> (Lecture Classes) §</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prof. J. Wolf and others</td>
<td>Dr P. J. O'Donnell</td>
<td></td>
</tr>
<tr>
<td>W. 12, Hopkinson Lecture Theatre</td>
<td>Tu. Th. 12, Hopkinson Lecture Theatre (ten lectures)</td>
<td></td>
</tr>
</tbody>
</table>

**Introduction to Mechanics §**
Dr P. J. O'Donnell
Tu. Th. 12, Hopkinson Lecture Theatre (ten lectures)

**Mathematics with Physics Option**
An introductory session for IA Physics students will be held at 11.00 am on Wednesday 6 October 2023 in the Pippard Lecture Theatre, Cavendish Laboratory.

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. Students will also be required to do Physics practical work, and should attend at least the first lecture of the Scientific Computing Course.

Because of timetabling constraints, it is not possible to attend in person the Physics lectures and the lectures on Numbers and Sets and Dynamics and Relativity (but there is significant overlap between the Physics lectures and those on Dynamics and Relativity). Students should discuss with their Directors of Studies the potential benefits of attending the non-examinable lecture classes on Numbers and Sets.

§ This lecture theatre is not equipped for lecture capture. Students following this course with a recommendation for access to recordings in their Student Support Document (SSD) should contact the Undergraduate Office for further information on support. Students who require access to recordings as a reasonable adjustment, but who do not yet have a SSD, should consult their College Tutor (see also paragraph 3 of the Faculty's Statement on the Recording of Teaching Sessions).
There will be an induction session for Part IB students at 4.00 p.m. on Wednesday 4 October 2023, in the Cockcroft Lecture Theatre.

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).

<table>
<thead>
<tr>
<th>Michaelmas 2023</th>
<th>Lent 2024</th>
<th>Easter 2024</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Linear Algebra</strong></td>
<td><strong>Complex Analysis</strong></td>
<td><strong>Optimisation</strong>*</td>
</tr>
<tr>
<td>Dr J. Sahasrabudhe</td>
<td>Prof. H. Krieger</td>
<td>Dr V. Jog</td>
</tr>
<tr>
<td><strong>Methods §</strong></td>
<td><strong>Statistics</strong></td>
<td><strong>Variational Principles</strong>*</td>
</tr>
<tr>
<td>Dr A. C. L. Ashton</td>
<td>Dr S. Bacallado</td>
<td>Prof. J. R. Gog</td>
</tr>
<tr>
<td><strong>Markov Chains</strong></td>
<td><strong>Groups, Rings and Modules</strong></td>
<td></td>
</tr>
<tr>
<td>Dr P. Sousi</td>
<td>Prof. O. Randal-Williams</td>
<td></td>
</tr>
<tr>
<td>Tu. Th. 10, <em>Cockcroft Lecture Theatre</em></td>
<td>M. W. F. 11, <em>Cockcroft Lecture Theatre</em></td>
<td></td>
</tr>
<tr>
<td><strong>Analysis and Topology ‡</strong></td>
<td><strong>Electromagnetism</strong></td>
<td></td>
</tr>
<tr>
<td>Dr P. A. Russell</td>
<td>Prof. H. S. Reall</td>
<td></td>
</tr>
<tr>
<td>Tu. Th. S. 11, <em>Cockcroft Lecture Theatre</em></td>
<td>Tu. Th. 9, <em>Cockcroft Lecture Theatre</em></td>
<td></td>
</tr>
<tr>
<td><strong>Quantum Mechanics</strong></td>
<td><strong>Fluid Dynamics</strong></td>
<td></td>
</tr>
<tr>
<td>Prof. F. Verstraete</td>
<td>Prof. J. R. Lister</td>
<td></td>
</tr>
<tr>
<td>Tu. Th. 12, <em>Cockcroft Lecture Theatre</em></td>
<td>Tu. S. 10, <em>Cockcroft Lecture Theatre</em></td>
<td></td>
</tr>
<tr>
<td><strong>Geometry</strong></td>
<td><strong>Geometry</strong></td>
<td></td>
</tr>
<tr>
<td>Dr J. Smith</td>
<td>Dr J. Smith</td>
<td></td>
</tr>
<tr>
<td>Tu. Th. S. 11, <em>Cockcroft Lecture Theatre</em></td>
<td>Tu. Th. S. 11, <em>Cockcroft Lecture Theatre</em></td>
<td></td>
</tr>
</tbody>
</table>

*Examined in Part IB of the Tripos
‡ Recordings for this course will only be made available as a reasonable adjustment for students with a recommendation for access to recordings. Students with such a recommendation in their Student Support Document (SSD) who have not automatically been granted access to the recordings should contact the Undergraduate Office. Students who require access to recordings as a reasonable adjustment, but who do not yet have a SSD, should consult their College Tutor (see also paragraph 3 of the Faculty’s Statement on the Recording of Teaching Sessions).

§ There will be no recordings available for this course; the lecturer will make alternative accommodations for students with recommendations for reasonable adjustments that include access to recordings. Students with such a recommendation in their Student Support Document (SSD) who have not automatically been notified of the alternative accommodations should contact the Undergraduate Office. Students who require access to recordings as a reasonable adjustment, but who do not yet have a SSD, should consult their College Tutor (see also paragraph 3 of the Faculty’s Statement on the Recording of Teaching Sessions).
MATHEMATICAL TRIPOS, PART II

Lectures will be held in the Meeting Rooms (MR) of the Centre for Mathematical Sciences, Clarkson Road, unless otherwise stated.

There will be an induction session for Part II students at 2.00pm on Wednesday 4 October 2023, in the Cockcroft Lecture Theatre.

The Faculty will facilitate an opportunity, at the beginning of the Lent Term, for students who wish to give a short mathematical presentation to a small audience on a mathematical topic. Details will be circulated during the Michaelmas Term.

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).

### C Courses

<table>
<thead>
<tr>
<th>Michaelmas 2023</th>
<th>Lent 2024</th>
<th>Easter 2024</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cosmology</strong></td>
<td>Quantum Information and Computation</td>
<td></td>
</tr>
<tr>
<td>Prof. E. P. S. Shellard</td>
<td>Prof. N. Datta</td>
<td></td>
</tr>
<tr>
<td>M. W. F. 9, MR4</td>
<td>M. W. F. 10, MR3</td>
<td></td>
</tr>
<tr>
<td><strong>Number Theory</strong></td>
<td>Coding and Cryptography</td>
<td></td>
</tr>
<tr>
<td>Prof. J. A. Thorne</td>
<td>Prof. S. Martin</td>
<td></td>
</tr>
<tr>
<td>M. W. F. 10, MR2</td>
<td>M. W. F. 11, MR2</td>
<td></td>
</tr>
<tr>
<td><strong>Classical Dynamics</strong></td>
<td>Mathematical Biology</td>
<td></td>
</tr>
<tr>
<td>Prof. D. B. Skinner</td>
<td>Prof. R. E. Goldstein</td>
<td></td>
</tr>
<tr>
<td>M. W. F. 11, MR9</td>
<td>Tu. Th. S. 10, MR2</td>
<td></td>
</tr>
<tr>
<td><strong>Automata and Formal Languages §</strong></td>
<td>Further Complex Methods</td>
<td></td>
</tr>
<tr>
<td>Prof. B. Loewe</td>
<td>Dr D. Frank</td>
<td></td>
</tr>
<tr>
<td>M. W. F. 12, MR3</td>
<td>Tu. Th. S. 11, MR2</td>
<td></td>
</tr>
<tr>
<td><strong>Statistical Modelling</strong></td>
<td>Topics in Analysis</td>
<td></td>
</tr>
<tr>
<td>Dr R. Altmeyer</td>
<td>Prof. T. W. Korner</td>
<td></td>
</tr>
<tr>
<td>Tu. Th. S. 11, MR4</td>
<td>Tu. Th. S. 12, MR4</td>
<td></td>
</tr>
</tbody>
</table>

No lecture on 21 November. Additional lecture on 30 November.
## D Courses

<table>
<thead>
<tr>
<th>Michaelmas 2023</th>
<th>Lent 2024</th>
<th>Easter 2024</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Stochastic Financial Models</strong>&lt;br&gt;Dr M. R. Tehranchi&lt;br&gt;M. W. F. 9, MR5</td>
<td><strong>Statistical Physics</strong>&lt;br&gt;Prof. C. E. Thomas&lt;br&gt;M. W. F. 9, MR2</td>
<td></td>
</tr>
<tr>
<td><strong>Fluid Dynamics ‡</strong>&lt;br&gt;Prof. M. G. Worster&lt;br&gt;M. W. F. 10, MR4</td>
<td><strong>Algebraic Topology</strong>&lt;br&gt;Prof. O. Randal-Williams&lt;br&gt;M. W. F. 9, MR9</td>
<td></td>
</tr>
<tr>
<td><strong>Representation Theory</strong>&lt;br&gt;Dr S. J. Wadsley&lt;br&gt;M. W. F. 11, MR3</td>
<td><strong>Analysis of Functions</strong>&lt;br&gt;Prof. R. Nickl&lt;br&gt;M. W. F. 10, MR4</td>
<td></td>
</tr>
<tr>
<td><strong>Principles of Statistics</strong>&lt;br&gt;Prof. P.-L. Loh&lt;br&gt;M. W. F. 11, MR4</td>
<td><strong>Applications of Quantum Mechanics</strong>&lt;br&gt;Dr A. Castro&lt;br&gt;M. W. F. 11, MR5</td>
<td></td>
</tr>
<tr>
<td><strong>Principles of Quantum Mechanics</strong>&lt;br&gt;Prof. E. Pajer&lt;br&gt;M. W. F. 12, MR2</td>
<td><strong>General Relativity</strong>&lt;br&gt;Dr J. M. Evans&lt;br&gt;M. W. F. 12, MR3</td>
<td></td>
</tr>
<tr>
<td><strong>Graph Theory §</strong>&lt;br&gt;Prof. I. Leader&lt;br&gt;Tu. Th. S. 9, MR2</td>
<td><strong>Algebraic Geometry</strong>&lt;br&gt;Prof. M. Gross&lt;br&gt;M. W. F. 12, MR4</td>
<td></td>
</tr>
<tr>
<td><strong>Numerical Analysis</strong>&lt;br&gt;Prof. H. Fawzi&lt;br&gt;Tu. Th. S. 9, MR4</td>
<td><strong>Logic and Set Theory</strong>&lt;br&gt;Dr A. Zsák&lt;br&gt;Tu. Th. S. 9, MR2</td>
<td></td>
</tr>
</tbody>
</table>
Probability and Measure  
Dr S. Sarkar  
Tu. Th. S. 10, MR3

Asymptotic Methods  
Prof. H. Latter  
Tu. Th. 10, MR4

Riemann Surfaces  
Dr J. Button  
Tu. Th. 10, MR14

Linear Analysis §  
Prof. I. Leader  
Tu. Th. S. 11, MR3

Electrodynamics  
Dr R. Adhikari  
Tu. Th. 11, MR14

Dynamical Systems ‡  
Prof. R. R. Kerswell  
Tu. Th. S. 12, MR3

Galois Theory  
Prof. T. Fisher  
Tu. Th. S. 12, MR9

Waves  
Prof. C. P. Caulfield  
Tu. Th. S. 9, MR4

Number Fields  
Prof. P. Varjú  
Tu. Th. 10, MR3

Applied Probability  
Dr S. Sarkar  
Tu. Th. S. 11, MR3

Differential Geometry  
Prof. C. Mouhot  
Tu. Th. S. 11, MR4

Integrable Systems  
Prof. D. M. A. Stuart  
Tu. Th. 12, MR5

Mathematics of Machine Learning  
Prof. R. Shah  
Tu. Th. 12, MR9

The following courses, proposed by the Board of the Faculty of Mathematics, are non-examinable.

Laboratory Demonstrations in Fluid Dynamics  
Prof. S. Dalziel  
M. Tu. W. 2-3.30 every second week,
Fluids Laboratory
‡ Recordings for this course will only be made available as a reasonable adjustment for students with a recommendation for access to recordings. Students with such a recommendation in their Student Support Document (SSD) who have not automatically been granted access to the recordings should contact the Undergraduate Office. Students who require access to recordings as a reasonable adjustment, but who do not yet have a SSD, should consult their College Tutor (see also paragraph 3 of the Faculty’s Statement on the Recording of Teaching Sessions).

§ There will be no recordings available for this course; the lecturer will make alternative accommodations for students with recommendations for reasonable adjustments that include access to recordings. Students with such a recommendation in their Student Support Document (SSD) who have not automatically been notified of the alternative accommodations should contact the Undergraduate Office. Students who require access to recordings as a reasonable adjustment, but who do not yet have a SSD, should consult their College Tutor (see also paragraph 3 of the Faculty’s Statement on the Recording of Teaching Sessions).
Lectures will be held in the Meeting Rooms (MR) of the Centre for Mathematical Sciences, Clarkson Road, unless otherwise stated.

All Part III and PhD students in the Faculty are able to self-enrol on Part III Moodle courses; they will be sent instructions on how to do so. All other members of the University wishing to access these courses are requested to complete the relevant form in the Part III Guide to Courses.

There will be a meeting on the morning of Wednesday 4 October for those intending to offer courses in Part III. Students should refer to the Notes for New Part III Students for further details.

There is a series of meetings for Part III students on Wednesdays at 4.15pm. Students are invited to refer to the Part III Handbook for more details.

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

<table>
<thead>
<tr>
<th>Michaelmas 2023</th>
<th>Lent 2024</th>
<th>Easter 2024</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Relativity</td>
<td>Algebraic Number Theory</td>
<td>Applications of Quantum Field Theory</td>
</tr>
<tr>
<td>Prof. C. M. Warnick</td>
<td>Dr H. Wiersema</td>
<td>Prof. S. A. Hartnoll</td>
</tr>
<tr>
<td>M. W. F. 9, MR2</td>
<td>M. W. F. 9, MR3</td>
<td>M. Tu. Th. F. 11, MR3</td>
</tr>
<tr>
<td>Advanced Probability</td>
<td>Field Theory in Cosmology</td>
<td>Gravitational Waves and Numerical Relativity</td>
</tr>
<tr>
<td>Prof. P. Sousi</td>
<td>Prof. E. Pajer</td>
<td>Prof. U Sperhake</td>
</tr>
<tr>
<td>M. W. F. 9, MR3</td>
<td>M. W. F. 9, MR4</td>
<td>M. Tu. Th. F. 12, MR3</td>
</tr>
<tr>
<td>Lie Algebras and Their Representations</td>
<td>Stochastic Calculus and Applications</td>
<td></td>
</tr>
<tr>
<td>Prof. S. Martin</td>
<td>Prof. J. Miller</td>
<td></td>
</tr>
<tr>
<td>M. W. F. 9, MR9</td>
<td>M. W. F. 9, MR5</td>
<td></td>
</tr>
<tr>
<td>Biological Physics and Fluid Dynamics</td>
<td>Spectral Computations in Infinite Dimensions</td>
<td></td>
</tr>
<tr>
<td>Prof. R. Goldstein</td>
<td>and Applications in Data Science</td>
<td></td>
</tr>
<tr>
<td>M. W. F. 9, MR12</td>
<td>Dr M. Colbrook</td>
<td></td>
</tr>
<tr>
<td></td>
<td>M. W. 9, MR11</td>
<td></td>
</tr>
<tr>
<td>Course</td>
<td>Instructor</td>
<td>Days</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>----------------------</td>
<td>------------</td>
</tr>
<tr>
<td>Combinatorics §</td>
<td>Prof. B. Bollobas</td>
<td>M. W. F. 10, MR3</td>
</tr>
<tr>
<td>Algebraic Geometry</td>
<td>Dr D. Ranganathan</td>
<td>M. W. F. 10, MR5</td>
</tr>
<tr>
<td>Quantum Information, Foundations and Gravity</td>
<td>Prof. A. P. A. Kent</td>
<td>W. F. 10, MR9</td>
</tr>
<tr>
<td>Slow Viscous Flow §</td>
<td>Prof. J. R. Lister</td>
<td>M. W. F. 10, MR12</td>
</tr>
<tr>
<td>Structure and Evolution of Stars</td>
<td>Prof. C. A. Tout</td>
<td>M. W. F. 10, MR14</td>
</tr>
<tr>
<td>Quantum Field Theory</td>
<td>Dr A. Castro</td>
<td>M. W. F. 11, MR2</td>
</tr>
<tr>
<td>Algebraic Topology</td>
<td>Prof. I. Smith</td>
<td>M. W. F. 11, MR5</td>
</tr>
<tr>
<td>Approximation Theory</td>
<td>Dr A. Shadrin</td>
<td>M. W. 11, MR12</td>
</tr>
<tr>
<td>Fluid Dynamics of the Solid Earth</td>
<td>Prof. M. G. Worster</td>
<td>M. W. F. 9, MR1</td>
</tr>
<tr>
<td>Cubulating Spaces and Groups</td>
<td>Dr M. Arenas</td>
<td>M. W. 9, MR13</td>
</tr>
<tr>
<td>Quantum Computation</td>
<td>Dr S. Subramanian</td>
<td>W. F. 9, MR14</td>
</tr>
<tr>
<td>No lecture on 19 January. Additional lecture on 15 March.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black Holes</td>
<td>Prof. H. S. Reall</td>
<td>M. W. F. 10, MR2</td>
</tr>
<tr>
<td>Distribution Theory and Applications</td>
<td>Dr A. C. L. Ashton</td>
<td>M. W. 10, MR5</td>
</tr>
<tr>
<td>Abelian Varieties</td>
<td>Prof. A. J. Scholl</td>
<td>M. W. F. 10, MR9</td>
</tr>
<tr>
<td>Fluid Dynamics of the Environment</td>
<td>Prof. S. Dalziel, Dr R. Bhagat</td>
<td>M. W. F. 10, MR12</td>
</tr>
<tr>
<td>Introduction to Additive Combinatorics</td>
<td>Prof. J. Wolf</td>
<td>M. W. F. 10, MR13</td>
</tr>
</tbody>
</table>
Model Theory and Non-Classical Logic
Dr J. Siqueira
M. W. F. 11, MR13

Astrophysical Fluid Dynamics
Prof. R. Rafikov
M. W. F. 11, MR14
Extra lecture on 26 Oct at 2pm, MR9
No lecture on 1 Nov

Category Theory
Prof. P. T. Johnstone
M. W. F. 12, MR4

Modular Forms
Prof. J. A. Thorne
M. W. F. 12, MR5

Modern Statistical Methods ‡
Dr S. Bacallado
M. W. F. 12, MR9

Fluid Dynamics of Climate
Prof. J. R. Taylor, Dr A. Ming
M. W. F. 12, MR12

Numerical Solution of Differential Equations
Prof. A. Iserles
M. W. F. 12, MR13

Planetary System Dynamics
Prof. M. Wyatt
M. W. F. 12, MR14

Functional Data Analysis
Prof. J. Aston
M. W. 10, MR14

Elliptic Curves
Prof. T. Fisher
M. W. F. 11, MR3

Elliptic Partial Differential Equations
Prof. N. Wickramasekera, Dr G. Taujanskas
M. W. F. 11, MR4

Quantum Entanglement in Many-body Physics
Prof. F. Verstraete
M. W. 11, MR9

The Life and Death of Galaxies
Prof. V. Belokurov
M. W. F. 11, MR11

Solitons, Instantons and Geometry
Prof. D. M. A. Stuart
M. W. 11, MR12

Large Cardinals
Prof. B. Loewe
M. F. 11, MR13

Advanced Financial Models
Prof. M. R. Tehranchi
M. W. F. 11, MR14
Commutative Algebra
Dr O. Becker
Tu. Th. S. 9, MR3

Topics in Statistical Theory
Prof. R. Samworth
Tu. Th. 9, MR5
Starting 10 Oct. Additional lecture on 13 Oct, 4pm in MR5

Advanced Quantum Field Theory
Dr R. A. Reid-Edwards
M. W. F. 12, MR2

Geometric Group Theory
Prof. H. Wilton
M. W. F. 12, MR5

Functional Analysis §
Dr A. Zsák
Tu. Th. S. 9, MR13

Statistical Learning in Practice
Dr R. Altmeyer
M. W. F. 12, MR9

Statistical Field Theory
Prof. C. E. Thomas
Tu. Th. 10, MR2

Forcing and the Continuum Hypothesis
Dr R. Matthews
M. W. F. 12, MR13

Causal Inference
Dr Q. Zhao
Tu. Th. 10, MR5

Direct and Inverse Scattering of Waves
Dr O. Rath Spivack
M. W. 12, MR14

Differential Geometry
Dr A. Kovalev
Tu. Th. S. 10, MR9

The Standard Model
Prof. D. Tong
Tu. Th. S. 9, MR3

Cosmology
Prof. B. D. Sherwin
Tu. Th. S. 11, MR2

Introduction to Computational Complexity
Prof. W. T. Gowers
Tu. Th. 9, MR5

Lattice Models
Prof. W. Werner
Tu. Th. 11, MR5

Topics in Convex Optimisation
Prof. H. Fawzi
Tu. Th. 9, MR9
Information Theory
Prof. I. Kontoyiannis
Tu. Th. 11, MR9

Hydrodynamic Stability
Prof. R. R. Kerswell
Tu. Th. 9, MR12

Analysis of Partial Differential Equations
Dr Z. Wyatt
Tu. Th. S. 11, MR13

Schramm-Loewner Evolutions
Dr Y. Yuan
Tu. Th. 9, MR13

Symmetries, Fields and Particles
Prof. M. Wingate
Tu. Th. S. 11, MR13

Toric Varieties
Dr R. Picciotto
Tu. Th. 9, MR14

Ramsey Theory on Graphs
Dr J. Sahasrabudhe
Tu. Th. 12, MR4

Symplectic Topology
Dr A. Ward
Tu. Th. 10, MR4

Local Fields
Dr R. Zhou
Tu. Th. S. 12, MR5
Starting 7 Oct

Robust Statistics
Prof. P-L. Loh
Tu. Th. 10, MR5

Statistics in Medical Practice +
Dr C. Jackson and colleagues
Tu. Th. 12, MR11 (twelve lectures)
First lecture on 17 Oct, no lectures on 9 Nov or 28 Nov

Supersymmetry
Prof. B. Allanach
Tu. Th. 10, MR9

Perturbation Methods
Prof. D. Abrahams
Tu. Th. 12, MR12
Extra lecture on Sat 21 October, 12pm, MR12
No lecture on Th 26 October

Astrophysical Black Holes
Dr D. Sijacki
Tu. Th. 10, MR12

Theoretical Physics of Soft Condensed Matter
Prof. M. E. Cates
Tu. Th. 10, MR13
Group Cohomology  
Dr C. J. B. Brookes  
Tu. Th. 11, MR5

Topological Quantum Matter  
Prof. B. Béri  
Tu. Th. 11, MR9

Dynamics of Astrophysical Discs  
Prof. H. Latter  
Tu. Th. 11, MR12

Analysis of Survival Data +  
Dr P. Treasure  
Tu. Th. 11, MR13

String Theory  
Prof D. B. Skinner  
Tu. Th. S. 12, MR2

Concentration Inequalities  
Dr V. Jog  
Tu. Th. 12, MR3

Stochastic Processes in Biology  
Dr M. Bruna  
Tu. Th. 12, MR12

Laboratory Demonstrations in Fluid Dynamics  
Prof. S. Dalziel  
W. 2-3:30, Fluids Laboratory

+ These two courses constitute the 24-lecture course in Statistics in Medicine. For examination purposes, Statistics in Medicine is considered a Lent term course.
‡ Recordings for this course will only be made available as a reasonable adjustment for students with a recommendation for access to recordings.

§ There will be no recordings available for this course; the lecturer will make alternative accommodations for students with recommendations for reasonable adjustments that include access to recordings.
COURSES INTENDED FOR POSTGRADUATES (NON-EXAMINABLE)

Lectures will be held in the Meeting Rooms (MR) of the Centre for Mathematical Sciences, Clarkson Road, unless otherwise stated.

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).

<table>
<thead>
<tr>
<th>Michaelmas 2023</th>
<th>Lent 2024</th>
<th>Easter 2024</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canonical Gravity (Hamiltonian Approach to</td>
<td>Topics in Mathematics for Deep Learning</td>
<td>Extremal Graph Theory</td>
</tr>
<tr>
<td>General Relativity)</td>
<td>Dr C. Esteve-Yagüe</td>
<td>Dr O. Janzer</td>
</tr>
<tr>
<td>Prof. M. Perry</td>
<td>M. W. 12, MR11</td>
<td>M. W. F. 10, MR4 (twelve lectures)</td>
</tr>
<tr>
<td>M. W. 10, MR13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-Equilibrium Statistical Field Theory</td>
<td>Radiative Processes in Astrophysical Plasma</td>
<td></td>
</tr>
<tr>
<td>Dr R. Garcia-Millan</td>
<td>Dr G. Del Zanna</td>
<td></td>
</tr>
<tr>
<td>Tu. Th. 9, MR12 (eight lectures)</td>
<td>M. W. 12, MR12</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced Stellar Evolution</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dr A. Zytkow</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tu. Th. 12, MR11</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

‡ Recordings for this course will only be made available as a reasonable adjustment for students with a recommendation for access to recordings.

§ There will be no recordings available for this course; the lecturer will make alternative accommodations for students with recommendations for reasonable adjustments that include access to recordings.