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.

**Michaelmas 2023**
- **General Relativity**
  - Prof. C. M. Warnick
  - M. W. F. 9, MR2

- **Advanced Probability**
  - Prof. P. Sousi
  - M. W. F. 9, MR3

- **Lie Algebras and Their Representations**
  - Prof. S. Martin
  - M. W. F. 9, MR9

- **Biological Physics and Fluid Dynamics**
  - Prof. R. Goldstein
  - M. W. F. 9, MR12

**Lent 2024**
- **Algebraic Number Theory**
  - Dr H. Wiersema
  - M. W. F. 9, MR3

- **Field Theory in Cosmology**
  - Prof. E. Pajer
  - M. W. F. 9, MR4

- **Stochastic Calculus and Applications**
  - Prof. J. Miller
  - M. W. F. 9, MR5

**Easter 2024**
- **Applications of Quantum Field Theory**
  - Prof. S. A. Hartnoll
  - M. Tu. Th. F. 11, MR3

- **Gravitational Waves and Numerical Relativity**
  - Prof. U Sperhake
  - M. Tu. Th. F. 12, MR3

- **Fluid Dynamics of the Solid Earth**
  - Prof. M. G. Worster
  - M. W. F. 9, MR12
<table>
<thead>
<tr>
<th>Course</th>
<th>Instructor(s)</th>
<th>Time</th>
<th>Room</th>
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<tbody>
<tr>
<td>Combinatorics</td>
<td>Prof. B. Bollobas</td>
<td>M. W. F. 10, MR3</td>
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<td>Black Holes</td>
<td>Prof. H. S. Reall</td>
<td>M. W. F. 10, MR2</td>
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<td>Algebraic Geometry</td>
<td>Dr D. Ranganathan</td>
<td>M. W. F. 10, MR5</td>
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<td>Distribution Theory and Applications</td>
<td>Dr A. C. L. Ashton</td>
<td>M. W. 10, MR5</td>
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<td>Information Theory</td>
<td>Prof. I. Kontoyiannis</td>
<td>M. W. 10, MR9</td>
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<td>Abelian Varieties</td>
<td>Prof. A. J. Scholl</td>
<td>M. W. 10, MR9</td>
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<td>Slow Viscous Flow</td>
<td>Prof. J. R. Lister</td>
<td>M. W. F. 10, MR12</td>
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<td>Spectral Computations in Infinite Dimensions</td>
<td>Dr M. Colbrook</td>
<td>M. W. 10, MR11</td>
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<tr>
<td>and Applications in Data Science</td>
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<td>Quantum Information, Foundations and Gravity</td>
<td>Prof. A. P. A. Kent</td>
<td>W. F. 10, MR13</td>
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<td>Fluid Dynamics of the Environment</td>
<td>Prof. S. Dalziel</td>
<td>M. W. F. 10, MR12</td>
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<td>Structure and Evolution of Stars</td>
<td>Prof. C. A. Tout</td>
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<td>Introduction to Additive Combinatorics</td>
<td>Prof. J. Wolf</td>
<td>M. W. F. 10, MR13</td>
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<td>Quantum Field Theory</td>
<td>Dr A. Castro</td>
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<td>Functional Data Analysis</td>
<td>Prof. J. Aston</td>
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<td>Algebraic Topology</td>
<td>Prof. I. Smith</td>
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<td>Elliptic Curves</td>
<td>Prof. T. Fisher</td>
<td>M. W. F. 11, MR3</td>
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<td>Approximation Theory</td>
<td>Dr A. Shadrin</td>
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<td>Elliptic Partial Differential Equations</td>
<td>Prof. N. Wickramasekera, Dr G. Taujanskas</td>
<td>M. W. F. 11, MR4</td>
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<td>Course Title</td>
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<td>Model Theory and Non-Classical Logic</td>
<td>Dr J. Siqueira</td>
<td>M. W. F. 11, MR13</td>
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<tr>
<td>Quantum Entanglement in Many-body Physics</td>
<td>Prof. F. Verstraete</td>
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<td>Astrophysical Fluid Dynamics</td>
<td>Prof. R. Rafikov</td>
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<td>The Life and Death of Galaxies</td>
<td>Prof. V. Belokurov</td>
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<td>Category Theory</td>
<td>Prof. P. T. Johnstone</td>
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<td>Solitons, Instantons and Geometry</td>
<td>Prof. D. M. A. Stuart</td>
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<td>Modular Forms</td>
<td>Prof. J. A. Thorne</td>
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<td>Large Cardinals</td>
<td>Prof. B. Loewe</td>
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<td>Modern Statistical Methods</td>
<td>Dr S. Bacallado</td>
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<td>Fluid Dynamics of Climate</td>
<td>Prof. J. R. Taylor, Dr A. Ming</td>
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<td>Advanced Quantum Field Theory</td>
<td>Dr R. A. Reid-Edwards</td>
<td>M. W. F. 12, MR2</td>
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<td>Numerical Solution of Differential Equations</td>
<td>Prof. A. Iserles</td>
<td>M. W. F. 12, MR13</td>
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<td>Geometric Group Theory</td>
<td>Prof. H. Wilton</td>
<td>M. W. F. 12, MR5</td>
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<td>Planetary System Dynamics</td>
<td>Prof. M. Wyatt</td>
<td>M. W. F. 12, MR14</td>
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<td>Statistical Learning in Practice</td>
<td>Dr R. Altmeyer</td>
<td>M. W. F. 12, MR9</td>
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<td>Commutative Algebra</td>
<td>Dr O. Becker</td>
<td>Tu. Th. S. 9, MR3</td>
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<td>Forcing and the Continuum Hypothesis</td>
<td>Dr R. Matthews</td>
<td>M. W. F. 12, MR13</td>
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Last update: 15 Sep. 23
Topics in Statistical Theory
Prof. R. Samworth
Tu. Th. 9, MR5

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

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

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

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

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

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

Topics in Convex Optimisation
Prof. H. Fawzi
Tu. Th. 9, MR9

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

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

Analysis of Partial Differential Equations
Dr Z. Wyatt
Tu. Th. S. 10, MR13

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

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

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

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

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

Symmetries, Fields and Particles
Prof. M. Wingate
Tu. Th. S. 12, MR2

Supersymmetry
Prof. B. Allanach
Tu. Th. 10, MR9
Ramsey Theory on Graphs  
Dr J. Sahasrabudhe  
Tu. Th. 12, MR4

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

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

Theoretical Physics of Soft Condensed Matter  
Prof. M. E. Cates  
Tu. Th. 10, MR12

Statistics in Medical Practice +  
Dr C. Jackson and colleagues  
Tu. Th. 12, MR11 (twelve lectures)

Group Cohomology  
Dr C. J. B. Brookes  
Tu. Th. 11, MR5

Perturbation Methods  
Prof. D. Abrahams  
Tu. Th. 12, MR12

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, Prof. J. Neufeld
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.