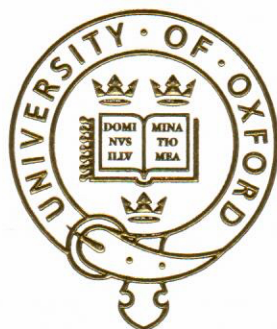


UNIVERSITY OF OXFORD



This is to certify that

**Yui Ming Mike Lau**

St Edmund Hall

satisfied the Examiners in the Final Honour School of

**Mathematical and Theoretical Physics**

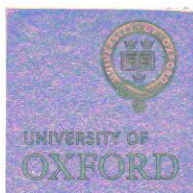
Parts A and B First Class

Part C Distinction

on 11 July 2019 and, having satisfied all the conditions prescribed by the Statutes of the University, was on 27 July 2019 admitted to the Degree of

**MASTER OF MATHEMATICAL AND  
THEORETICAL PHYSICS**

University Offices,  
Oxford.  
7 August 2019



A handwritten signature in black ink, appearing to read 'J. Arthor'.

Registrar

## ACADEMIC TRANSCRIPT

### Personal Information

Student:	Yui Ming Mike LAU	Date of Birth:	10 July 1997
University Reference:	808591	HESA Reference:	1511560020298
Qualification Sought:	Master of Mathematical and Theoretical Physics	FHEQ Level:	Masters
Start Date:	11 October 2015	Expected End Date:	30 June 2019

### Programme Information

Teaching Institution:	University of Oxford	Awarding Institution:	University of Oxford
College:	St Edmund Hall	Mode of Attendance:	Full-time
Programme of Study:	Master of Mathematical and Theoretical Physics	Language of Instruction:	English

### Award Information

The student has yet to complete the programme of study shown above

### Assessment Information

Academic Year	Assessment Name	Result Mark/Grade	Attempt Number
<b>Qualifying examinations</b>			
2015/16	17 Days Practical Work	Pass	1
2015/16	CP1 Physics 1	56	1
2015/16	CP2 Physics 2	78	1
2015/16	CP3 Mathematical Methods 1	68	1
2015/16	CP4 Mathematical Methods 2	57	1
2015/16	S1 Functions of a Complex Variable	88	1
<b>Final Degree examinations</b>			
2016/17	12 days of practical work	92	1
2016/17	A1. Thermal Physics	83	1
2016/17	A2. Electromagnetism and Optics	71	1
2016/17	A3. Quantum Physics	74	1
2016/17	Individual Presentations	75	1
2016/17	S2 Astrophysics: From Planets to Cosmos	96	1
2017/18	12 days of practical work	86	1
2017/18	B1. Flows, Fluctuations and Complexity	58	1
2017/18	B2. Symmetry and Relativity	78	1
2017/18	B3. Quantum, Atomic and Molecular Physics	71	1
2017/18	B4. Sub-Atomic Physics	80	1



# THE UNIVERSITY OF OXFORD

Academic Administration Division  
Examination Schools  
High Street  
Oxford, OX1 4BG  
United Kingdom

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Fax: +44(0) 1865 276904  
<http://www.ox.ac.uk/students/graduation>  
email: [degree.conferrals@admin.ox.ac.uk](mailto:degree.conferrals@admin.ox.ac.uk)

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## About the University of Oxford

The University of Oxford is an independent self-governing university. It is the oldest university in the English-speaking world and has been in continuous existence for some nine centuries. It is an international leader in learning, teaching and research. As a collegiate institution, it comprises the central university and 38 colleges and 6 permanent private halls.

## University of Oxford Transcripts

The transcript should not be released to another person, organisation or institution except to officials internal to your own organisation or institution who have a reasonable business use for the information. Release to other parties requires the written consent of the student. The following information is provided to aid in the evaluation of this student's academic record. Further explanation or detailed information can be obtained by contacting Degree Conferrals at the above address.

Under University regulations, Boards of Examiners may, where appropriate, take account of information additional to the profile of marks listed overleaf in deciding the final degree classification awarded to any student.

The explanatory text on the transcript is subject to change until such time that the programme of study is completed.

## Academic Credit

The University does not routinely apply credit weightings to its programmes and its courses are not generally taught on a modular basis. We take each year of full-time undergraduate study to equal 120 UK credits and 180 UK credits for Masters-level postgraduate study according to the Higher Education Credit Framework for England. In relation to the European Credit Transfer Scheme (ECTS), this is equivalent to 60 credits for undergraduate study and 90 credits for Masters-level postgraduate study.

## Framework for Higher Education Qualifications (FHEQ levels)

8 (Doctoral)	Doctor Degrees (e.g. PhD, DPhil)
7 (Masters)	Master's Degrees (including Integrated Master's Degrees) Postgraduate Diplomas Postgraduate Certificates
6 (Honours)	Bachelor's Degrees with Honours
5 (Intermediate)	Ordinary/Pass Bachelor's Degrees

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## Authentication

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## Mark Scales

All marks included on a final academic transcript have been ratified by the Deputy Registrar. Examiners are required to express final agreed marks on all formally assessed work according to the following marking scales:

## Undergraduate Programmes

70-100	First Class
60-69	Upper Second Class
50-59	Lower Second Class
40-49	Third Class
30-39	Pass
0-29	Fail

## Postgraduate Taught Programmes\*

70-100	Distinction
50-69	Pass
0-49	Fail

\*A number of programmes follow an alternative set of boundaries:

70-100	Distinction
60-69	Pass
0-59	Fail

## Transcript Terminology

*Result Not Moderated (On Course Transcripts Only):* Indicates a mark that may be subject to moderation in the process of concluding the final outcome of an examination comprising more than one part and taken over more than one year.

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Academic Year	Assessment Name	Result Mark/Grade	Attempt Number
2017/18	B5. General Relativity and Cosmology	81	1
2017/18	B6. Condensed-Matter Physics	70	1
2017/18	Mini Project	80	1
2017/18	S26 Stars and Galaxies	72	1

Students on the four year Master of Mathematics and Physics degree receive a double classification. The first classification is awarded at the end of their third year based on their second and third year work (Parts A and B) on their original degree course: Mathematics, Physics or Physics & Philosophy. The assessments for Parts A and B each receive a University Standardised Mark where 0-29 corresponds to a fail, 30-39 a pass, 40-49 a third, 50-59 a lower second, 60-69 an upper second 70-100 a first. A second classification is awarded at the end of their fourth year based on their fourth year work (Part C) on Mathematics and Theoretical Physics. The Part C classification is based on ten of the assessments they have undertaken in Mathematical and Theoretical Physics plus an assessed oral presentation. The assessments may take the form of a written examination, mini-project, take-home-exam or dissertation. Some courses also have a homework completion requirement. Units assessed by only a homework completion requirement and the oral presentation are marked as either pass or fail. All other units receive a University Standardised Mark where 0-49 corresponds to a fail, 50-69 a pass and 70-100 a distinction.

End of Transcript



# THE UNIVERSITY OF OXFORD

Academic Administration Division  
Examination Schools  
High Street  
Oxford, OX1 4BG  
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