

Welcome to Year 1 Students to the Department of Physics University of Liverpool

Max Klein

Site, Physics, Agenda

29/9/20

F300
BSC Physics
F333
BSC Physics with Year Abroad (YA)
F350
BSC Physics w Medical Applications
F353
BSC Physics w Medical App w YA
F390
BSC Physics with Nuclear Science
F3F5
BSC Physics with Astronomy

F303
MPHYS Physics
F309
MPHYS Physics with YA
F521
MPHYS Astrophysics
F522
MPHYS Astrophysics with YA

The City motto (Deus nobis haec otia fecit, "God has provided this leisure for us") → the University motto (Haec otia studia fovet; "This leisure makes our studies flourish").

A better known motto of the City, its FC.. and the University: "You never walk alone".

With year two, further opportunities will open, such as a year in industry, and transitions, like BSC → Master, later be possible

Liverpool and John Moores Universities – Physics Sites

Astrophysics Research Institute.

Wednesday: 10am

This ZOOM room:

Virtual Tour
with 4 Students

And Lecture
about the History
of the Physics
Department

-don't miss-



Oliver Lodge – Physics Department



Victoria Museum

CTL (>2015)

Abercromby Square

Liverpool University Campus

- The Harold Cohen Library



Introduction to
Library on Friday:
Zelda Chatten

- Victoria Building.



Designed by
Alfred Waterhouse



“Redbrick Universities”
1943 by *Edgar A. Peers*

First purpose built
University building (1892)

- Central Teaching Lab (CTL)

- Map at: <http://www.liv.ac.uk/maps/>



WELCOME

A Campus Doctors Guide

Guardian 24.09.2020

Get a good night's sleep

Ask for help

Get connected

Take control

Pace yourself

Be a diplomatic housemate

Plan your communication

Take relationships steadily



Robin Peckham (Guardian 24.09.20)

[in science we cite the sources]

<https://www.theguardian.com/education/2020/sep/24/how-to-stay-mentally-healthy-at-university-a-campus-doctors-guide>

Welcome to Physics – A Campus Physicists Remarks

Teaching

There is no learning without teaching

John Wheeler (1911-2008)
Quantum Gravity, Black Holes, ..
Princeton University

There is no teaching without Learning

“There is no royal road (“route royal”) to science, and only those who do not dread the fatiguing climb of its steep paths have a chance of gaining its luminous summits.”

Karl Marx, Philosopher *Capital Vol I*, 1867
Preface - Remark to his french editor La Chatre

Compassion and Knowledge

Human existence is based upon two pillars: Compassion and knowledge. Compassion without knowledge is ineffective; knowledge without compassion is inhuman.

Victor Weisskopf: 1908-2002. *Austrian, Nuclear and Quantum Theorist, former Director General of CERN*

Society and its/your Future

“We *have* the freedom needed to limit and direct technology; we *can* put it at the service of another type of progress, one which is healthier, more human, more social, more integral”

Address of His Holiness Pope Francis to the 75th Meeting of the General Assembly of the United Nations. 25 September 2020



Braun Cathode Tube (1897)



Large Hadron Collider (2008-2040)

Physics has had a glorious 20th century with the development of Relativity, Quantum Physics, Gauge Field Theory such as Electrodynamics,

discoveries of numerous particles, structures, laws, or missing matter in the Universe,

enabled by exciting progress in technology such as from the cathode tube to colliders

Your century has already seen the discovery of the Higgs Boson and gravitational waves.

There is no doubt, that the future of physics is bright, if civilisation and climate prevail

Physics is international: e.g. ATLAS: the largest experiment we are involved in (238 institutes)

Our Physics Department is international too, and we believe it will continue to be, > 01.01.21



29.9.-2.10.2020

Welcome to Year 1 Students to the Department of Physics

Programme of the Week

Tuesday 29.9.

10:00-12:00

Introduction

Prof. Max Klein

Welcome by HoD

Prof. Carsten Welsch

Teaching

Prof. David Joss

Students Office

Carole Burgess

Questions/Answers

University: 15:00

Herb Pot Planting

Wednesday 30.9.

10:00-11:00

Campus Tour Online

Thomas George

Freya Halsam

Ty Mason

Jack Woodward

11:00-12:00

History of the Liverpool Physics Department

Dr. Peter Rowlands

Thursday 1.10.

10:00-12:00

Group A

Isaac Puzzle

Sarah Annand

14:00-16:00

Group B

Isaac Puzzle

Sarah Annand

University: 12:00

UNICEF on Campus

Friday 2.10.2020

10:00 **Institute of Physics**

Katherine Platt

10:30 **University Library**

Zelda Chatten

11:00 - 12:00

Employability - Panel

Prof. Carsten Welsch (chair)

Constantinos Astreos, Charlotte

Ford, Prof. Uta Klein, Ed Reeves

14:00-15:00

Quests of Modern Physics

Dr. Nikos Rompotis

<https://liverpoolguild.native.fm>

To ensure in-time start, join the ZOOM sessions 5-10 minutes prior to when sessions begin. For more information consult please the CANVAS link (cf welcome mail of Friday by HoD).

	Monday 5/10	Tuesday 6/10	Wednesday 7/10	Thursday 8/10	Friday 9/10
AM	10:00-11:00 Welcome Meet the programme directors 11:00 – 12:00 Academic Advisor Meet and Greet	10:00-12:00 Treasure Hunt	10:00 – 12:00 Problem Class Intro	10:00 – 12:00 Lab Intro	
PM	14:00-17:00 Social Event: Escape Room	13:00-15:00 Treasure Hunt (cont.)	16:00-17:00 The Great Read: Journey Beyond the Stars 17:00 <i>2001</i> Film evening	13:00-15:00 Pub Quiz	13:00-14:00 Mastering Physics Signup 14:00-15:00 Seminar:Supernova Science Stacey Habergham-Mawson Prizegiving

FOUNDATION WEEK

5-9. October 2020

Physics Department

Professor Rodi Herzberg and a large team

Course Lectures: 12.10.+

Timetable (subject to change, please always refer to the most up to date version on CANVAS. That will also have the correct links to the meetings on TEAMS, in case they change)