

# 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 fovent; "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 industry, and transitions, like BSC → Master, later be possible

# Liverpool and John Moores Universities – Physics Sites

## Astrophysics Research Institute.

Wednesday: 10am

This ZOOM room:

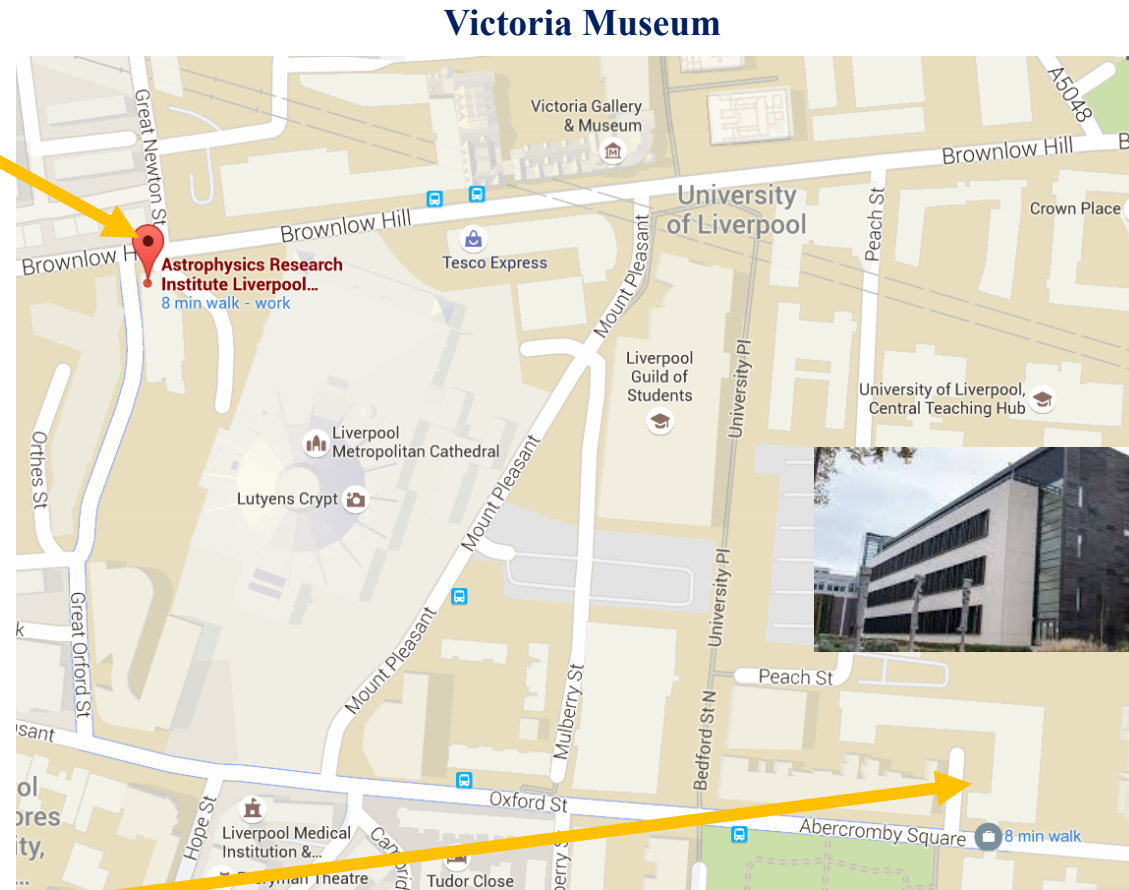
Virtual Tour  
with 4 Students

And Lecture  
about the History  
of the Physics  
Department

-don't miss-



**Oliver Lodge – Physics Department**



**Victoria Museum**

**Abercromby Square**



**CTL (>2015)**

# Liverpool University Campus

- The Harold Cohen Library



- Victoria Building.



- Central Teaching Lab (CTL)

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

Designed by  
Alfred Waterhouse



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

First purpose built  
University building (1892)



**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 Letter to his french editor*

## 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 75<sup>th</sup> 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 20<sup>th</sup> 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

**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

**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

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<br><a href="#">Welcome</a><br><a href="#">Meet the programme directors</a><br>11:00 – 12:00<br><a href="#">Academic Advisor</a><br><a href="#">Meet and Greet</a> | 10:00-12:00<br><a href="#">Treasure Hunt</a>         | 10:00 – 12:00<br><a href="#">Problem Class Intro</a>                                                             | 10:00 – 12:00<br><a href="#">Lab Intro</a> |                                                                                                                                                                   |
| PM | 14:00-17:00<br><a href="#">Social Event: Escape Room</a>                                                                                                                      | 13:00-15:00<br><a href="#">Treasure Hunt (cont.)</a> | 16:00-17:00<br><a href="#">The Great Read: Journey Beyond the Stars</a><br><br>17:00 <i>2001</i><br>Film evening | 13:00-15:00<br><a href="#">Pub Quiz</a>    | 13:00-14:00<br><a href="#">Mastering Physics Signup</a><br><br>14:00-15:00<br><a href="#">Seminar:Supernova Science</a><br>Stacey Habergham-Mawson<br>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)