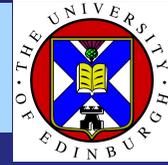


Edinburgh PPE Group



- **Group overview**

- Staff and PhD students
- Recent successes
- Infrastructure
- Support
- **New Web Pages**

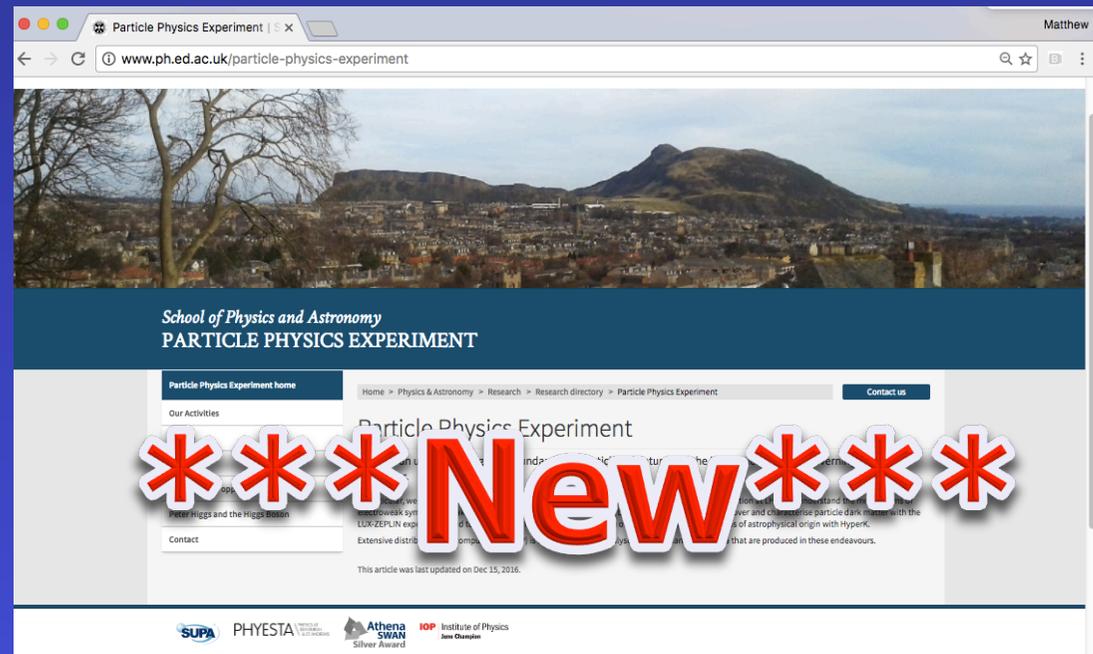
- **PPE Activities**

- ATLAS
- LHCb
- GridPP
- Neutrinos
- Dark matter
- Detector R&D
- Outreach

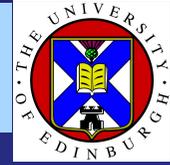
Franz Muheim
19 December 2016
PPE Group meeting

More information available
Group web pages

<http://www.ph.ed.ac.uk/particle-physics-experiment/>



PPE Group Staff



- **Academics**

- Phil Clark
- Pete Clarke
- Christos Leonidopoulos
 - promoted to Reader
- Victoria Martin
- Franz Muheim
 - Head of Group
- Matt Needham
- Steve Playfer
- Alex Murphy ***

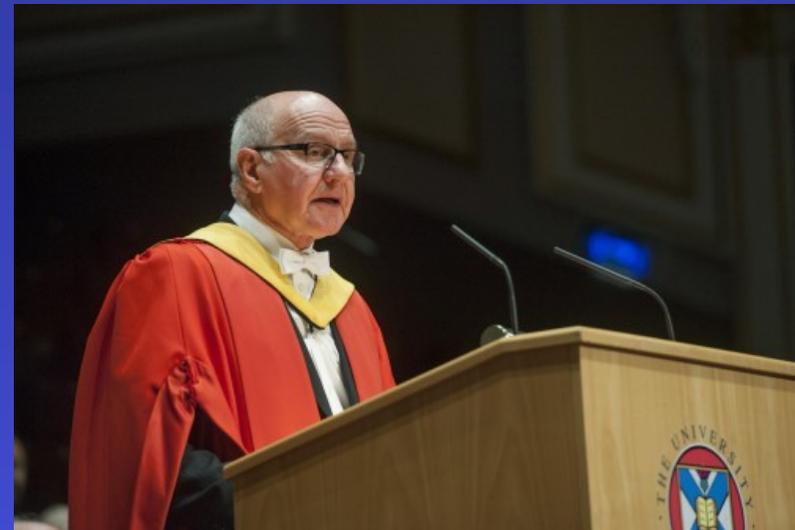
- **Advanced Fellows**

- Greig Cowan (STFC ERF)

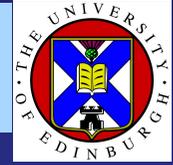
*** also member of Nuclear Physics group

- **Honorary & visiting academics**

- Fabiola Gianotti
- Ken Peach
- Alan Walker
 - Received Honorary doctorate



PPE Group Staff & Students



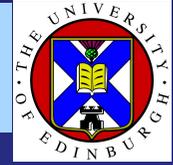
- **~15 Senior Scientists / Post docs / Technical Staff**

- Stephan Eisenhardt, Andy Washbrook
- Jon Webster (technician), Bojan Masic (technician)
- Flavia Dias, Laurence Carson, Ben Wynne,
- Silvia Gambetta, Daniel Craik, Marcus Ebert,
- Lilia Drakopoulou, Liza Mijovic, *Ahmed Hasib, Rob Currie ****
- *Two new PDRAs, 1 engineer will arrive in early 2017 ****

- **~15 PhD Students**

- Sebastian Olivares, Thomas Davison, Adam Morris,
- Xanthe Hoad, Iwan Smith, Maria Francesca Marzioni
- Konstantin Gizdov, Andres Søgaard and Alan Taylor
- *Emmy Gabriel, Matthew Heath, Athoy, Nilima, Mahdi Taani, Yixuan Zhang, Jennifer Zonneveld, ****
- **** new*

Staff Leaving and Joining



- Leaving: Congratulations to



Yanyan Gao → Lecturer at Liverpool University,
from Sept 2016

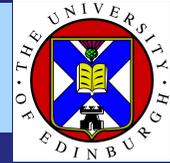


Giorgos Sidiropoulos → School of Engineering,
from Dec 2016



Flavia Dias → RA at Copenhagen,
from Jan 2017

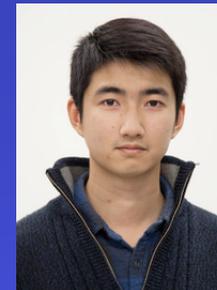
Staff Leaving and Joining



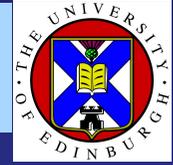
- **Joining: Welcome to**

- 2 new RAs since last meeting
- Ahmed Hasib - ATLAS
- Rob Currie - LHCb / GridPP
- 4 new RAs in 2016
- Liza Mijovic - ATLAS, Lilia Drakopoulou - Hyper-K

- 6 new PhD students joined PPE in Sept 2016
- Emmy Gabriel, Matthew Heath, Athoy Nilima, Mahdi Taani,
Yixuan Zhang, Jennifer Zonneveld



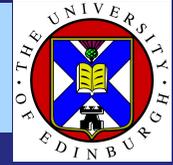
Recent Student Successes



- **PhD Students - submitted, viva-ed, (graduated in 2016)**
 - Haofei Luo → Chinese Army
 - Francisca Garay → RA at Edinburgh
 - Tim Bristow → Discovery Insurance (South Africa)
 - Dianne Ferguson → Selex
 - Paul Glaysher → RA at Desy
 - Sebastian Olivares → RA at FONDECYT (Chile)

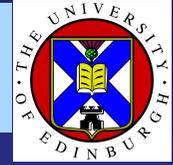


Undergraduate & MSc Teaching



- **Undergraduate MPhys and MSc students**
 - projects available on ATLAS and LHCb data analysis and detector development
 - project available on Hyper-K, dark matter and Linear Collider
 - Current MPhys student: *Nicolas Angelides*
 - *Need to update projects*
- **Summer students**
 - School offers competition for bursaries
 - 2016 - *Sebastian Jaskiewicz, Neil McBlane, Salome Aka, Nicolas Angelides, Clare Park*
- **Undergraduate Teaching**
 - Muon lifetime and mass measurements
 - Testing new detectors - LAPPD
 - Analysis and computational projects

PPE Group - Infrastructure



- **Offices**

- 5301, 5302 - PhD students
- 54nn corridor, 4311 - Academics/Fellows/RAs

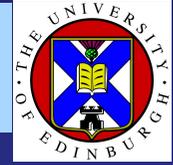
- **Conference room**

- 5202 - Audiovisual equipment for Vidyo, Skype
- Book via Google calendar - Edinburgh PPE
- Coffee and Tea facility

- **Laboratories**

- 5201 - HPD Photon Detector Test Facility
- 5203, 5203b, 5204 - Advanced Detector Development Centre
- 5207 - Teaching Laboratory - Muon Lifetimes
- 5207 - MaPMT Photon Detector Test Facility

PPE Group - Support



- **Admin**

- General - Gill Maddy, Tracy Brown and team
email - admin-general@ph.ed.ac.uk
- PhD students - Liz Paterson liz@staffmail.ed.ac.uk

- **Computing Support**

- Andy Washbrook (group support)
- Sean McGeever and team (School CST)

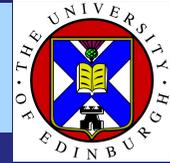
- **Finance**

- Joanna Richards and team (Finance)
email accounts - accounts@ph.ed.ac.uk

- **Procurement**

- ask us if you need something
Andy Washbrook for computers,
Jon Webster, Stephan Eisenhardt, FM for kit

PPE Group - Support



- **Travel**

- Most of us book our own travel, but you can ask General Admin - **Tracy Brown, Gill Maddy** and team admin-general@ph.ed.ac.uk
- For PhD students, ask **Liz Paterson** liz@staffmail.ed.ac.uk
- For travel reimbursed by STFC, you need to fill in **UK PP travel notice** at <https://pprc.qmul.ac.uk/~lloyd/travel/travel.php?page=login>
- Info on ATLAS and LHCb Wiki will migrate to group Wiki

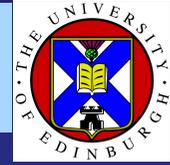
- **Travel insurance**

- You need to have **travel insurance** - provided by university, but each trip has to be arranged by sending email to admin team
- If you travel a lot you might consider taking out **travel insurance**

- **Travel claims**

- **eExpenses** - take receipts to accounts accounts@ph.ed.ac.uk
- Please make sure you use correct cost centre/job code combinations

PPE Group - Support



- **Workshops, conferences**

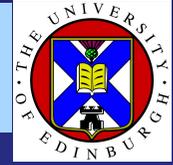
- We regularly organise meetings
- support by School admin team
Lyndsey Ballantyne
- email l.ballantyne@ed.ac.uk

- **Recent meetings**

- **Heavy Flavour 2016 - Quo Vadis?**
11-15 July 2016
at Ardbeg distillery on Islay
- **Royal Society Exhibition
Antimatter matters**
4-10 July 2016, London
<http://antimatter-matters.org/>

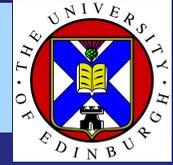


PPE Group - Roles



- **Research groups and CERN specifics**
 - Registration and renewals via project leader:
Victoria → Phil for **ATLAS** and Franz for **LHCb**
 - Need Home Institute Declaration - forms
 - Pete is **GridPP** group leader
 - Matt is **Hyper-K** group leader
 - Alex is **LUX/LZ** group leader
- **Seminars organiser**
 - Greig Cowan
 - please send him names of possible speakers
- **PhD recruitment**
 - Christos → Matt
 - PhD students for Sept 2017 has started

PPE Activities



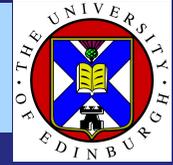
- **ATLAS**
 - ATLAS results, see talk by *Liza*
- **Dark Matter**
 - Direct dark matter searches, see talk by *Nicolas*
- **Hyper-K**
 - working on reconstruction, see talk by *Lilia*
 - LAPPD photon detector, Greig presented at RICH 2016 conference
- **LHCb**
 - See talks by *Iwan, Adam*

PPE Activities



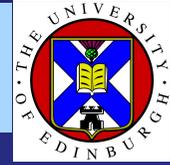
- **GridPP**
 - Data Storage
 - Ask *Pete, Marcus* and *Andy Washbrook* if you are interested
 - See talk by *Marcus*
- **Detector Development**
 - ATLAS and LHCb Upgrade, Hyper-K
 - Excellent facilities in *Advanced Detector Development Centre (ADDC)*
 - Have started working with new types of photon detectors - *LAPPDs*
 - Ask *Stephan et al.* if you are interested
- **Higgs Centre of Innovation (HCI)**
 - HCI Building on Blackford Hill will be ready next year
 - HCI includes CERN Business Incubator → Opportunities for people wishing to start their own company

PPE Activities



- **MSc Teaching**
 - Currently School has MSc in Mathematical and Theoretical Physics
 - Works well and brings in money (from overseas students)
 - Plan to set up **MSc in experimental particle and nuclear physics**
- **Group web pages**
 - Migrated to new web pages last week
 - Thanks to **Christos, Matt** and **Andy**
- **Outreach**
 - Peter Higgs web page <http://www.ph.ed.ac.uk/higgs> maintained by **Victoria Martin** and **Alan Walker**
 - **Particle Physics for Scottish Schools (PP4SS)**
please join **Alan** when he is asking for volunteers, it is fun!

Final Comments

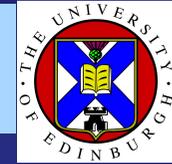


- **Regular PPE group fixtures**
 - PPE academics meeting 1st Tuesday each month
 - All group PPE meeting twice per year
 - Next meeting will be in May 2017, TBD
 - Group members are usually going to **lunch** at 12 noon in School Coffee room 4318
 - Bring you own food or buy it on Campus or Magnet Cafe
 - Sometimes we go to Swann building 7th floor or student union
 - Should we have regular **group coffee?**
 - facilities for coffee and tea in 5202

Backup slides



PPE Group Staff



- In total ~40 staff and PhD students
- 7 Academics (CF = Chancellor's Fellow)



Phil Clark



Peter Clarke



Christos
Leonidopoulos CF



Victoria Martin



Franz Muheim

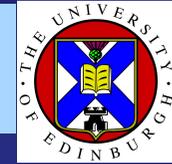


Matt Needham CF



Steve Playfer

PPE Group Staff



- **Advanced Fellows**



Greig Cowan
STFC ERF



Corrinne Mills
DG SF

- **3 Honorary Fellow/Professors**



Alan Walker

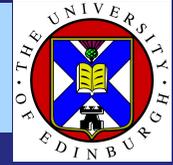


Ken Peach



Fabiola Gianotti
Director General
of CERN

Institute for Particle and Nuclear Physics



- **School of Physics and Astronomy**
 - Head of School - *Arthur Trew*
 - School is made from four institutes: IPNP, ICMCS, IfA and EPCC
- **Institute for Particle and Nuclear Physics (IPNP)**
 - Head of Institute - *Luigi del Debbio* (since Aug 2014)
 - 3 Research groups - PPE, Particle Physics Theory (PPT) and Nuclear Physics (NP)
- **Joint IPNP Activities**
 - Postgraduate PPE & PPT recruitment - *Christos, Jenni Smillie*
 - Higgsteria - *Victoria, Alan Walker* (p.w.higgs@ed.ac.uk, ...),
 - Higgs MOOC - *Christos, Luigi del Debbio*
 - Colloquium and seminar