Particle Physics Group Meeting: 8 Sept 2016

Introduction: PRN

- Staffing
- Some highlights
- Funding
- Group web pages
- Concerns and gripes

Staff Changes

Farewells …

- **April 2016:** Andy Chisholm
- **Sept 2016:** Ludovica Aperio-Bella
- **Sept 2016:** Matthew Williams

Arrivals …

- **Nov 2015:** Laura Gonella
- **April 2016:** Nancy Andari
- **April 2016:** Francesco Gonnella
- **June 2016:** Imran Iqbal
- **June 2016:** Tony Price
- **Sept 2016:** Steve Worm

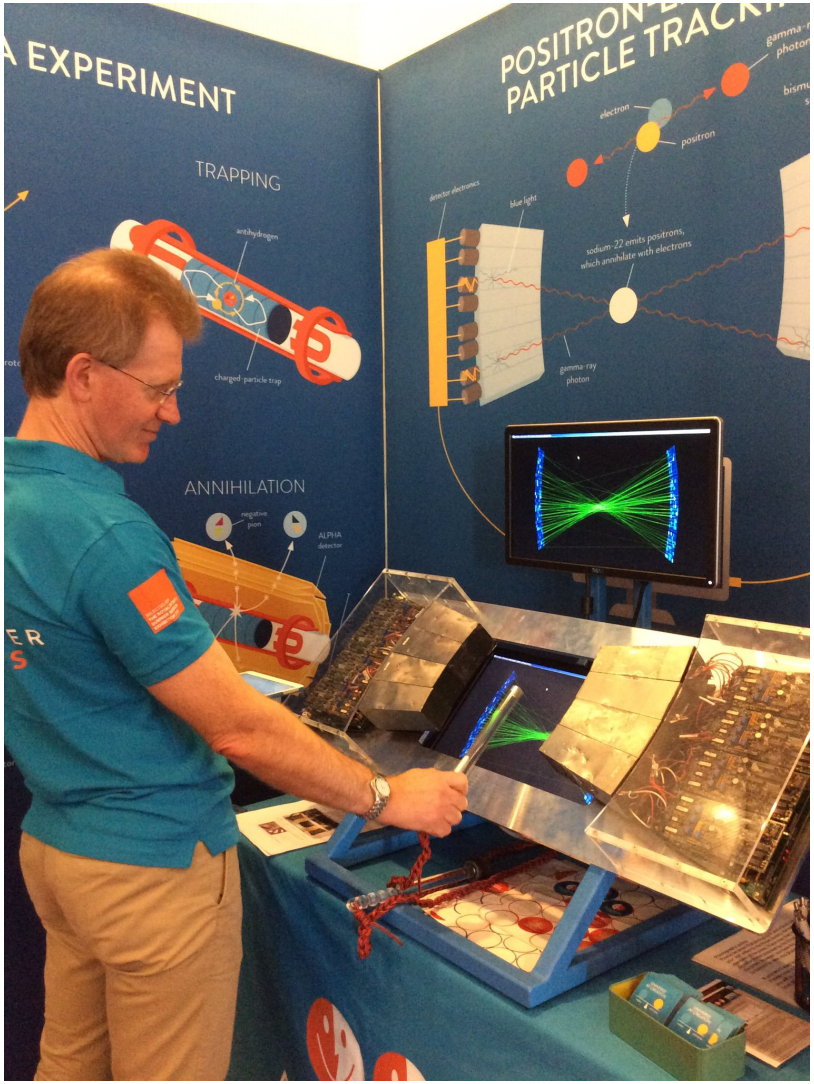
Arriving soon …

- **Oct 2016:** Nicolas Lurkin (NA62)
- NA62 Marie Curie, ATLAS analysis postdoc, AIDA post also expected in next 6-9 months

Opening of the Birmingham Instrumentation Laboratory for Particle Physics & Applications (BILPA)

BILPA

Another RS Summer Science Exhibition



ANTIMATTER MATTERS

… just one part of an outreach programme that continues to be truly outstanding

Hosting Upcoming Conferences

KAON'16 - Next week! **DIS'17 - Easter 2017**

… help put Birmingham PP on the map … please support them …

Bubble Chamber (IOP-HEPP) Tournament

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… but most importantly …

- Progress in commissioning, operations, analysis, publications, upgrade, distributed computing for all of our experiments

Newly Awarded Grants

- Consolidated Grant 2015-19 (£4.2M)

- Consolidated Grant Capital (£70k)

- GridPP5 (£246k)

- PRD for R&D into MAPS (£181k)

- ATLAS ITk Tracker Upgrade Bridging (£185k)

- Kostas Nikolopoulos ERC Starting Grant
  "Exclusive Higgs" (€1.5M)

- Silicon Development for EIC ($75k)

… apologies for any I forgot (please let me know)

Notes on Grants

- 2016 capital call currently pending …

- Uncertainty in UK post-Nurse and post-Brexit ☹ … new govt, new dep't, new RC Structure, new STFC CEO. As it stands …

- STFC / Consolidated Grant remains on "flat cash" → real terms reductions … 2019 round will not be easier than 2015: expect ~10% cuts, submission expected early 2018.

[CoI's discussion later today on strategy]

- STFC currently in 'balance of programme' exercise. Will hopefully bring clarity on e.g. ATLAS phase 2 upgrade funding

- Diversification is essential!

→ ERC, Marie-Curie and other EU sources still open
→ Other personal awards, Royal Soc, Leverhume …
→ UK Global Challenges Research Fund is huge

Web Pages

- Thanks to many people who contribute, coordinated by Matt
- Please do try to keep your bits up to date.
- Further overall development of the site planned for the next year (ideas and volunteers welcome!)

PARTICLE PHYSICS UNIVERSITY OF BIRMINGHAM

Home
PhD Research
Experiments
- ATLAS
- LHCb
- LHeC
- Linear Collider
- NA62
- ALICE
- Past experiments

Publications
TWiki
- View (read-only)
- Login

Courses
Seminars
Outreach
Vacancies
Facilities
- Silicon Laboratory
- Internal group page
- Local systems guide
- e-Science certificates

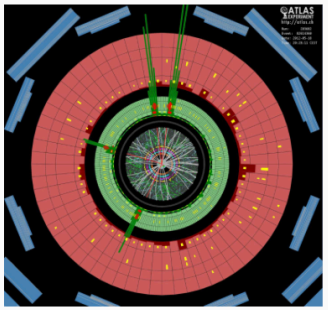
Who we are
Contact us
Getting here

We are a large research group within the School of Physics and Astronomy at the University of Birmingham in the UK, studying collisions produced by particle accelerators to determine the ultimate structure of matter and the forces of nature.

Our main current activities are all based at the CERN laboratory in Geneva. We have a central involvement in the ATLAS experiment at the Large Hadron Collider, where we are studying the Higgs boson and searching for other signs of new physics at the energy frontier. We are investigating the matter-antimatter asymmetry in the Universe using beauty quarks at the LHCb experiment. Our NA62 group is studying ultra-rare decays of strange particles to search for new physics such as lepton flavour violation. Our colleagues from the nuclear physics group are involved in related research with the ALICE experiment at the Large Hadron Collider.

Our facilities include a large silicon laboratory , extensive capabilities for constrcuing trigger and data acquisition systems and a substantial GridPP site as part of the world-wide LHC distributed computing network.

Our research is supported primarily by the Science and Technology Facilities Council with additional current grants from the Royal Society and the European Research Council.



News

14 July 2016
New BILPA silicon lab opened

4 July 2016
LHCb colleagues showing antimatter matters at Royal Society Summer Science exhibition

20 April 2016
PRaVDA proton therapy detectors being tested on Bham cyclotron

20 March 2016
Birmingham team win 42nd Bubble Chamber tournament

3 March 2016
New NA62 postoc position advertised

27 January 2016
New technician post advertised

Birmingham PP on the Web

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27 January 2016
New technician post advertised

26 November 2015
New firmware engineer post advertised

26 November 2015
Forward W and Z production at LHCb with strong Birmingham involvement

Please let me know when you have any interesting news (outreach events, meetings being held, big papers led by Birmingham …)

Coffee lounge screen also shows rotating web pages of interest → suggestions welcome

Some Sundried Concerns and Suggestions

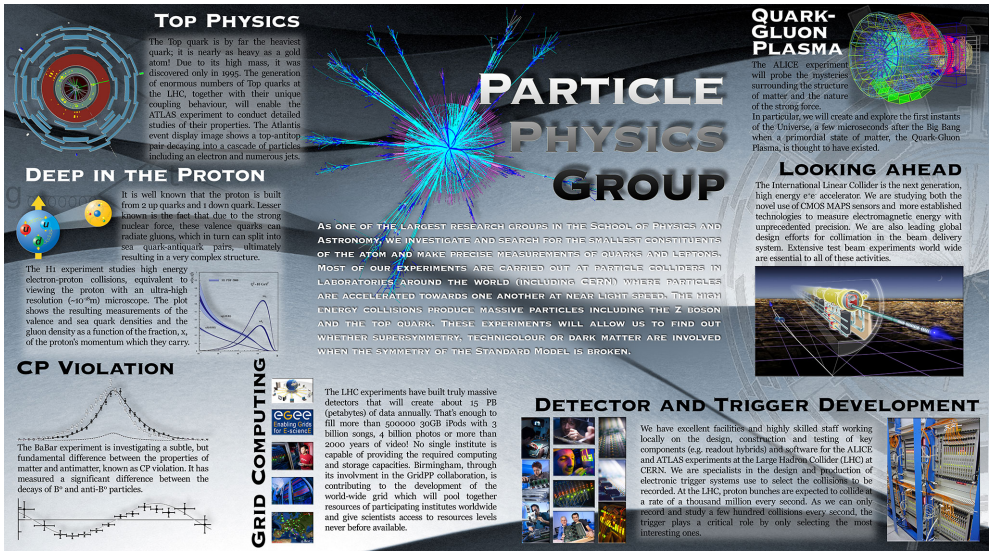
- **Seminars …** thanks to Ian and Chris and now Tonino… (ideas?)
  - Please (pretty please!) attend

- **Open Days …** thanks to those who help.
  - Please (pretty pretty please!) volunteer
  - Can we get a more systematic set-up procedure?

- **Offices …** - Becoming very tight (apologies) → Expansion?

- **College Paper of the Month …**
  - Let me know when you have something suitable

- **Group Poster …**
  - Ancient! Chris Parkinson tries(d) to make a new one.



13:30 **ATLAS Data Analysis (12+3)**

Speakers: Konstantinos Nikolopoulos (University of Birmingham (GB)) Thompson (University of Birmingham (GB))

13:45 **ATLAS L1Calo (8+2)**

Speakers: Alan Watson (University of Birmingham (GB)) , Juraj Bracinik of Birmingham (GB))

13:55 **ATLAS Silicon Tracker / BILPA lab (8+2)**

Speakers: Juergen Thomas (University of Birmingham (GB)) , Laura Go (University of Birmingham (UK))

14:05 **Other BILPA Activities (8+2)**

Speakers: Laura Gonella (University of Birmingham (UK)) , Philip Patric (University of Birmingham (GB))

201606-PP-BHA...

14:15 **LHCb (12+3)**

Speakers: Nigel Watson (University of Birmingham (GB)) , Simone Bifa

bham_2016_09_0...

14:30 **NA62 (12+3)**

Speakers: Angela Romano (University of Birmingham (GB)) , Antonino (University of Birmingham (GB)) , Evgueni Goudzovski (University of Bir

CL-NA62.pdf

14:45 **Computing and GridPP (8+2)**

Speakers: Chris Hawkes (University of Birmingham (GB)) , Mark Slater

14:55 **DUNE (10+5)**

Speaker: Alan Watson (University of Birmingham (GB))

15:10 **New Lepton Colliders (6+2)**

Speaker: Nigel Watson (University of Birmingham (GB))

15:18 **New Lepton Hadron Colliders (6+2)**

Speaker: Paul Newman (University of Birmingham (GB))

15:26 → 15:38 **Outreach Matters (10+2)**

Speaker: Cristina Lazzeroni (University of Birmingham (GB))

CL-outreach.pdf

15:38 → 15:50 **Undergraduate Teaching, PwPPC, C4 Projects ... (10+2)**

Speakers: Chris Hawkes (University of Birmingham (GB)) , Nigel Watson (University of Birmingham (GB))

15:50 → 16:02 **PhD Student Matters (10+2)**

Speaker: Cristina Lazzeroni (University of Birmingham (GB))

CL-PhD.pdf

16:02 → 16:10 **A.O.B.**

16:15 → 16:30 **Group Photo**

16:30 → 17:00 **Strategy Discussion for Next Consolidated Grant (Academic Staff & Other Col's)**

Speaker: Paul Newman (University of Birmingham (GB))

17:00 → 18:00 **Informal Debrief in Bratby Bar**

Please note last 3 items ☺