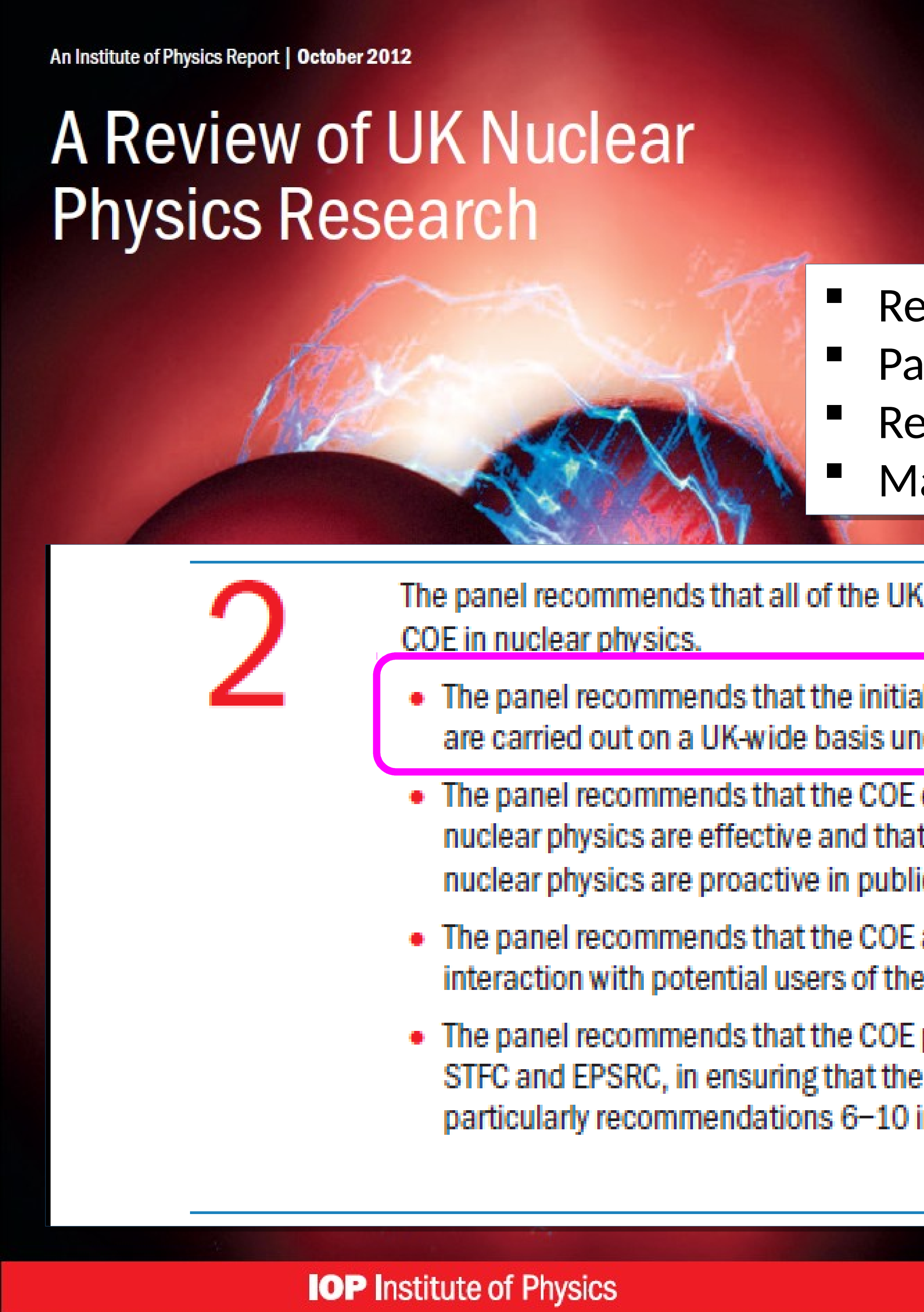
UK Nuclear Physics Graduate School

Status/update

Warwick Meeting
January 2019



- Review of UK Nuclear Physics Research
- Panel chaired by Professor W. Gelletly
- Report in October 2012
- Made several recommendations…

2 The panel recommends that all of the UK academic nuclear physics groups join to form a UK COE in nuclear physics.

- The panel recommends that the initial and formal aspects of PhD education and training are carried out on a UK-wide basis under the auspices of the COE.
- The panel recommends that the COE ensures that publicity/communications about nuclear physics are effective and that the COE and all of the component UK groups in nuclear physics are proactive in publicising nuclear physics in general.
- The panel recommends that the COE acts as a "one-stop" shop to provide a focal point for interaction with potential users of the skills of the nuclear physics community.
- The panel recommends that the COE plays an active role, in partnership with the STFC and EPSRC, in ensuring that the recommendations of the EPSRC/STFC review, particularly recommendations 6–10 in its report, are implemented.

A brief history of the Graduate School

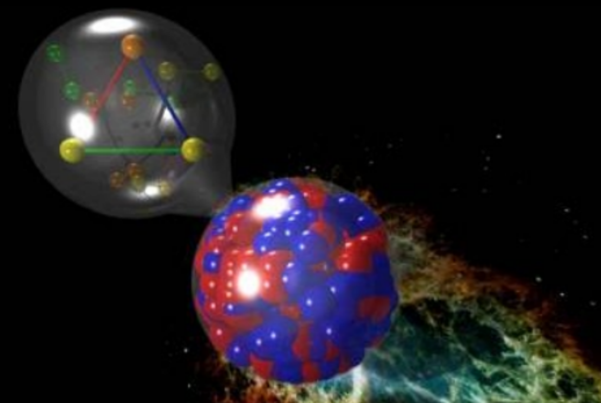
- Graduate School "pilot" put together in summer 2013 by JFS and Jon Billowes.
- 8 modules offered from different institutions
- Different delivery methods
- Operated in AY 2013-2014 and AY 2014-2015, successfully
- Operated in AY 2015-2016, less successfully
- Did not run in AY 2016-2017
- Impetus partly from STFC PhD Studentship Accreditation
- Resumed and refreshed in autumn AY 2017-2018 with input from Alison Bruce and Sean Freeman
- 6 modules offered
- Website: http://uknuclearphysicsgraduateschool.com
- Uses free platforms: Google Sites, Google Drive, EventBrite
- Module admin now mostly in the hands of the lecturers
- Anyone can enrol (no restrictions)

Nuclear Physics Graduate School

Welcome to the web pages the Nuclear Physics Graduate School. The Graduate School is a collaborative effort between all of the UK nuclear-physics research groups, offering specialist PhD-level modules for the education and training of PhD students in nuclear physics.

The collaboration includes the universities of Birmingham, Brighton, Derby, Edinburgh, Glasgow, Liverpool, Manchester, Surrey, UWS, and York, as well as STFC Daresbury Laboratory.

The portfolio of Modules presently available is listed on these web pages in the Modules section. It is expected that other modules will be added as the School develops. So please check the pages regularly to find out what modules are on offer.



Contacts

The following people are your local contacts for the Nuclear Physics Graduate School.

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If any changes are required to this list, contact your local Editor or John.F.Smith@uws.ac.uk.

Modules

NPGS001

Angular Momentum and Gamma Decay

Dr Paul Campbell (University of Manchester)

Distance Learning

Information

Register

NPGS005

Quarks and Hadron Spectroscopy

Dr Bryan McKinnon & Dr Derek Glazier (University of Glasgow)

Delivered by video conferencing (part of SUPA Graduate School)

Information

Register

NPGS006

Nuclear Instrumentation

Dr Andrew Boston (University of Liverpool)

Delivered at the University of Liverpool

Drive

Sign in

npgs001

DOWNLOAD ALL

Files

Name ↑

- All_notes.pdf
- handout.pdf
- Outline.pdf
- week1.pdf
- week2.pdf
- week3.pdf
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- week5.pdf

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Nuclear Physics Graduate School

Live Events 0 Past Events 6

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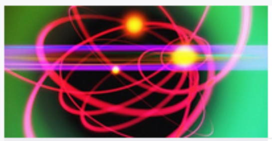


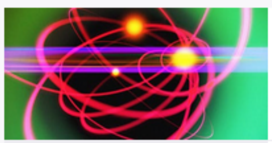
FREE

SAT, 1 SEP 09:00

Modern Modelling and Computation in Nuclear Structure

Department of Physics, Heslington

#ScienceTech



FREE

MON, 9 JUL 13:00

Nuclear Instrumentation

Oliver Lodge Laboratory, Liverpool

#ScienceTech

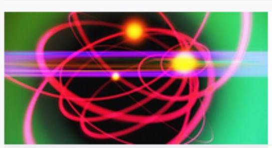
FREE

MON, 18 JUN 09:00

Hands-on Experiments at the Birmingham Cyclotron

School of Physics and Astronomy, Birmingham

#ScienceTech



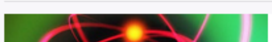
FREE

WED, 18 APR 13:30

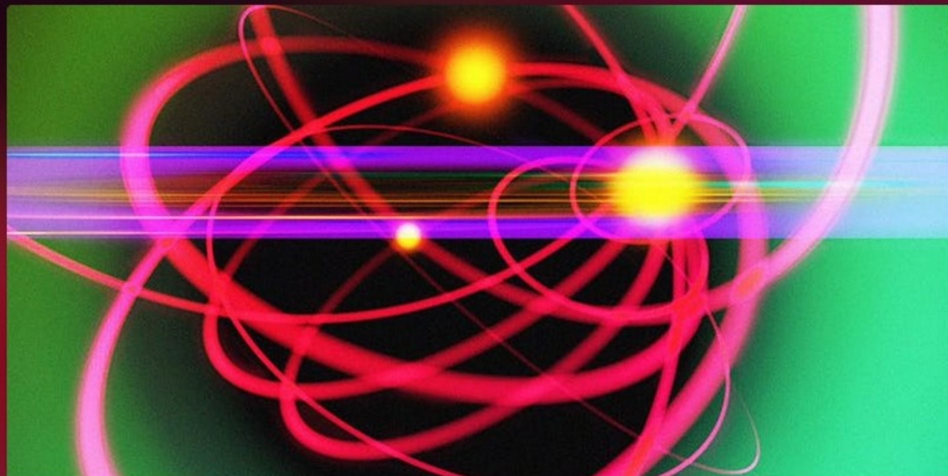
Nuclear Reaction Theory

Department of Physics, Guildford

#ScienceTech



WED, 11 APR 09:00



DEC
04

Angular Momentum and Gamma Decay

by Nuclear Physics Graduate School

Free

Sales Ended

Details

Description

Dr Paul Campbell
University of Manchester

Delivered by distance learning
(video lectures and PDF lecture notes).

Normally delivered in November/December.

Tags

Things To Do In Manchester | Other | Science & Tech

Date And Time

Mon, 4 Dec 2017, 09:00 –
Fri, 30 Mar 2018, 09:00 GMT
Add to Calendar

Location

Schuster Building
School of Physics and Astronomy
University of Manchester
Manchester
M13
View Map

Modules offered in AY 2017-2018

Title	*Lecturer*	*Instutution*	*Date*	*Delivery*	*Enrollments*
Modelling and Computation in Nuclear Structure	Pastore	York	01/10/2018	Face-to-face	3
Nuclear Instrumentation	Boston	Liverpool	09/07/2018	Face-to-face	10
Hands-on Experiments at the Birmingham Cyclotron	Wheldon	Birmigham	18/06/2018	Face-to-face	10
Nuclear Reaction Theory	Timofeyuk	Surrey	18/04/2018	Face-to-face	15
Quarks and Hadron Spectroscopy	McKinnon	Glasgow	11/04/2018	Video conferencing	5
Angular Momentum and Gamma Decay	Campbell	Manchester	04/12/2017	Blended	5

Defunct modules

Nuclear Models (Paul; Liverpool)

Nuclear Astrophysics (Aliotta; Edinburgh)

Hands-on Shell Model (Simpson; UWS)

My opinions

- It is not perfect but it is working OK
- It is worthwhile and should continue
- As it stands, it is as good as it can get
- Based on goodwill and community spirit
- We can make small changes…
  - Request more modules
  - Encourage students to enrol
  - Better feedback
  - Annual meeting of lecturers or reps (at Forum?)
- For bigger improvements need commitment, predefined timetable, assessment, QA etc
- Needs complete buy-in from community and incentive for lecturers and institutions

Points for discussion

- Should we continue in the same manner?
- Should we ask STFC for funding for administration, student travel and subsistence etc?
- Which modules are missing (e.g. nuclear astrophysics)?
- Should we have a list of core modules?
- Should the modules run on a two-year cycle?
- What are the incentives for the lecturers/institutions?
- Should it be made more formal?
- Assessment and quality assurance?
- Should it have better integration with the summer school?
- Can it be used for training for Global Challenges proposals?