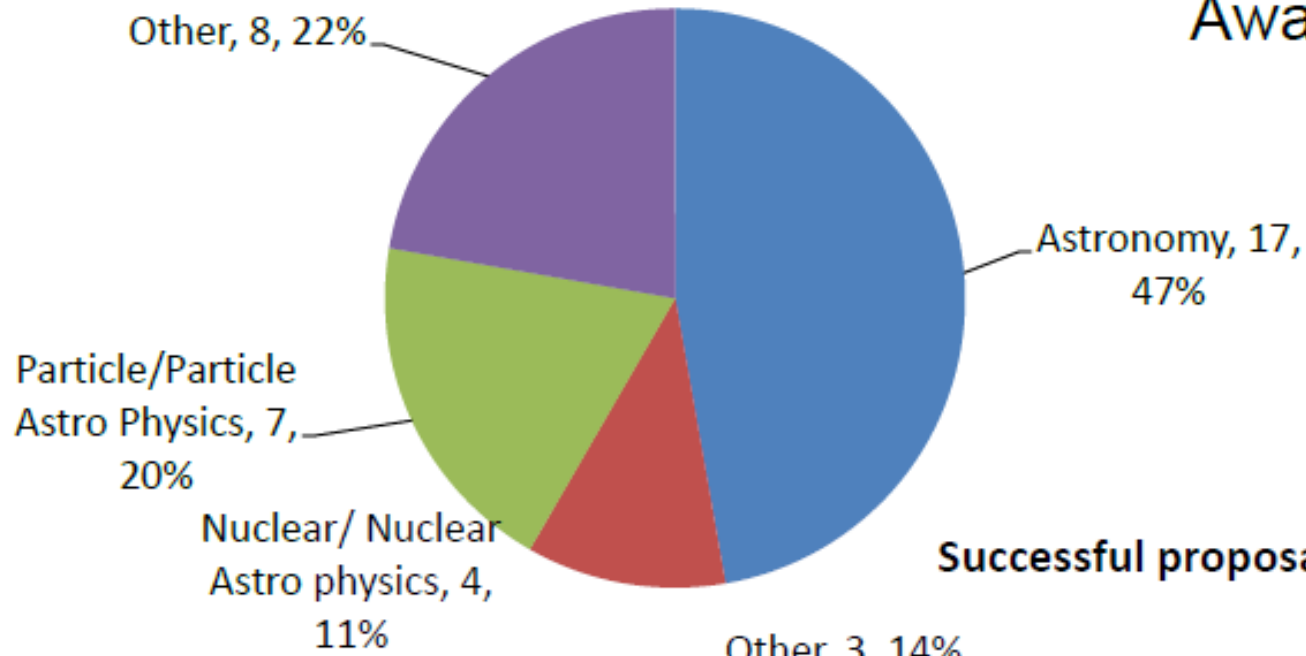


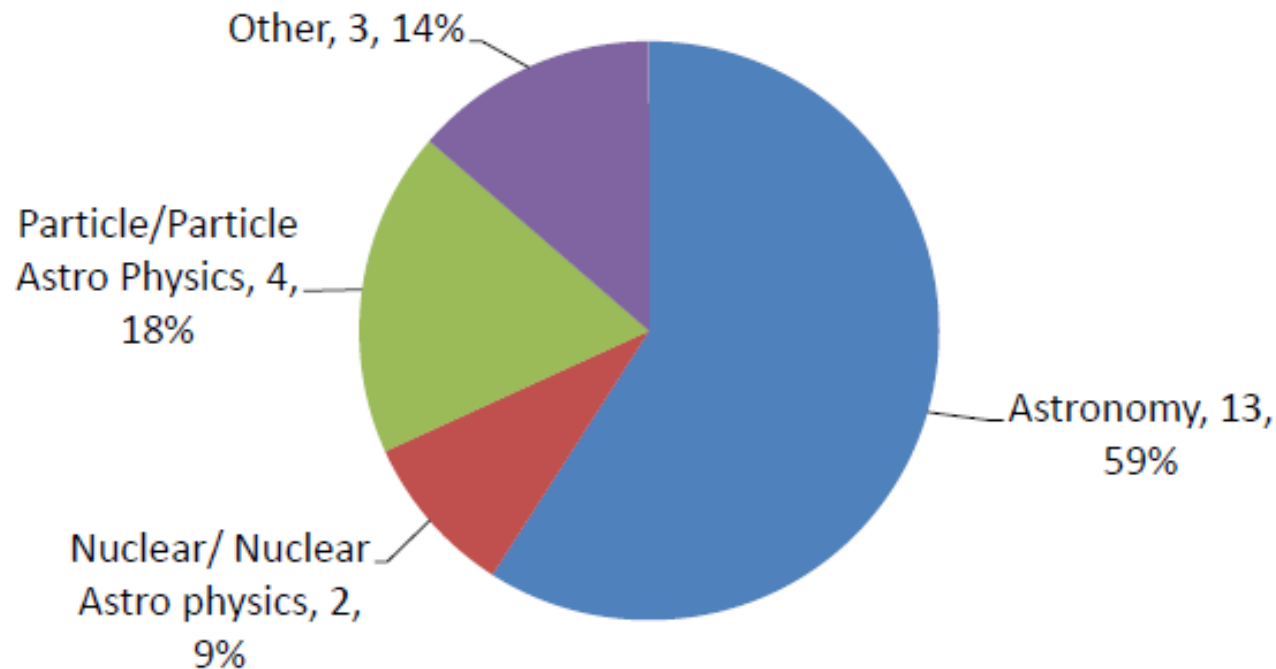


GCRF 2017 Foundation Award Call

All applications



Successful proposals



2 successful 'nuclear' proposals:



This laboratory contains equipment funded by the STFC GCRF project called NuTRAIN led by David. The laboratory will be used by students to develop their own detectors for experimental nuclear physics as well as societal applications in medical imaging and environmental monitoring. A parallel laboratory has been established at the University of Zululand (UZ), also with GCRF funding. During 2018, the GCRF project has supported the visit of 6 students (3 from UWC and 3 from UZ) to York, each for a period of three weeks. During their visit, they received hands-on training and lectures in nuclear applications and detector development.



We are eagerly anticipating a second phase for this project where York will collaborate with UWC and UZ to develop plastic-scintillator based PET detectors which can be of benefit to people across the developing world. A two-year project was submitted to the recent GCRF call.

For more information see: [York Physics Department News](#).

Contribution by David Jenkins
david.jenkins@york.ac.uk (York)

MANDELA – Modern African Nuclear DEtector LaLaboratory

York, University of Western Cape, University of Zululand

October 2018 issue of 'Nuclear Activity'

Also on STFC's website.

~£100k



Advanced Nuclear Science and Technology Techniques

iThemba LABS, Cape Town,

5-9 March 2018

funded by STFC Global Challenge Research Fund (~£30k)



Topics covered:

- Environmental measurements, metrology and applications;
- Development of digital data acquisition and pulse shape analysis techniques;
- Techniques for lifetime measurements using LaBr₃(Ce) detectors;
- Environmental measurements;
- Techniques for neutron/gamma discrimination;
- New and future experiments, detector and arrays;
- Future experimental programmes at iThemba LABS, FAIR, and beyond.

The workshop was attended by 64 participants from 10 countries (Australia, Botswana, Cameroon, Japan, Nigeria, Norway, South Africa, Tanzania, UK, USA). There were 31 (27 men, 4 women) staff talks and 11 (5 men, 6 women) student talks.

Lots of potential in lots of young people





Extra £6k to spend on similar activities:

Funded University of Dar Es Salaam students to visit iThemba LABS

Funded 2 UK young scientists teach at workshop on Spectrum
Presentation, Analysis, Manipulation and Simulation/12-14 Nov 2018



[New hubs](#)

Recent panel:

42 proposals totalling £12 million

6 from nuclear, 4 in South Africa
 1 in Armenia
 1 in India

Results soon.



Advanced Nuclear Science and Technology Techniques 2

iThemba LABS, Cape Town, 18-20 March 2019

Abridged version - 1 day on each of:
metrology and applications
environmental measurements
nuclear structure studies at iThemba LABS



Advanced Nuclear Science and Technology Techniques 2

[Asking for funds from the 21st century challenges exploration award](#) (max £20k for Stakeholder Engagement

Challenge Capability Mapping

Early Stage scoping studies)