# UK Nuclear Physics Update (2022)

### • UK Nuclear Physics Science include:

- Nuclear Structure and Nuclear Astrophysics
- Hadronic Physics
- Nuclear Theory
- (Industrial) UK Nuclear Data Network
- NUclear SECurity Network ; Early Diagnosis Network.
- Public Engagement & Outreach
- Applications and Innovation

**Core UKRI funding comes via STFC (tensioned vs Particle Physics and Astronomy).** 

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# Some 'Big' Physics Questions?

What are the fundamental building block of matter ?
 How can you see 'inside' an atomic nucleus / nucleons?
 Where & when were the stable elements formed?
 How do we measure very long / short radioactive decays?
 What are some of the applications of nuclear science?

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# Size of the UK community

- There are ~70 academics / faculty staff @ 11 institutions carrying out nuclear physics research
  - Includes recent appointments via ERF, UKFLF, RS Fellows.
  - Almost all are University-based researchers
- 90 PhD Research students across the community
   ~ 50 funded by STFC quota plus a few iCASE etc.
- Nuclear Physics Advisory Panel (Chair R.Page Liverpool)

#### https://sites.google.com/view/stfccancerdiagnosis

# STFC Cancer Diagnosis Network+

#### Welcome to the STFC Cancer Diagnosis Network+

The Science and Technology Facilities Council (STFC) Cancer Diagnosis Network+ (CDN) is a multidisciplinary community with academic, clinical and industry members aiming to collaboratively address clinical challenges in the diagnosis of cancer. The Network+ is built upon four themes:

- 1. Early diagnosis
- 2. Precision and quantitative imaging
- 3. Multimodal techniques
- 4. Data science techniques applied to imaging and bioinformatics

The CDN ultimately seeks to enable researchers with expertise and knowledge developed through the STFC core science programmes and at STFC national facilities and laboratories to address one of the most important societal and economic global challenges of this century. The CDN therefore hosts multidisciplinary challenge led <u>workshops</u> and provides <u>funding for scoping studies, proof of concept projects and PhD studentships</u> to translate STFC innovations into clinical impact. There are also opportunities for Early Career Researchers to apply for <u>travel awards</u> to attend conferences and events, <u>placements and MSc level training</u> in medical physics and bioinformatics.



**UK Academic Network in Nuclear Security and Non-proliferation Skills** 

The STFC Nuclear Security Science Network (NuSec)

- Novel imaging techniques, including compact gamma & neutron imaging systems; cosmic ray muon imaging of large objects.
- Radiation detection, detector development, digital pulse processing; new materials for radiation detectors.
- Advanced detection methods for nuclear fuel cycle monitoring.
- Robotics and remote inspection technologies.
- Non-proliferation technologies.

### For further information, see: <a href="http://www.nusec.uk/">www.nusec.uk/</a>









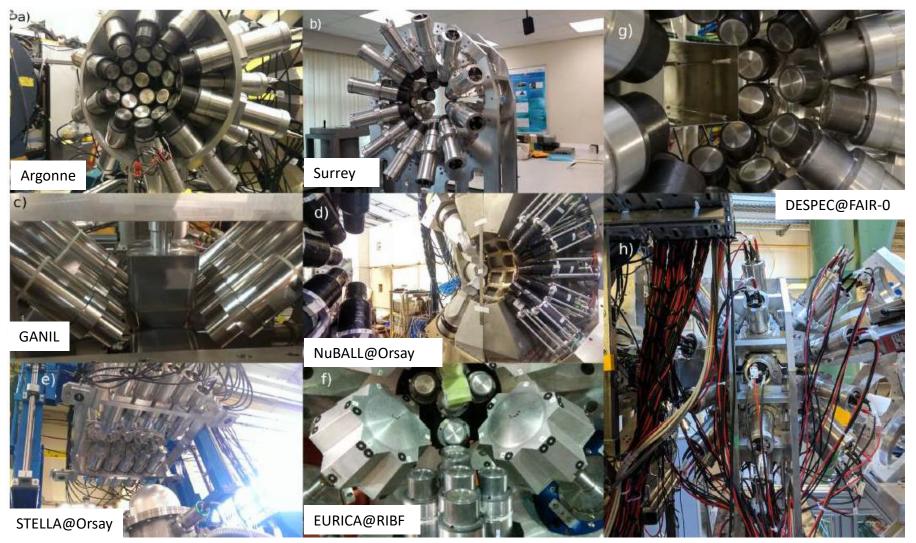


# **The Nuclear Physics Strategy document**

- Scope and range of Physics
- Current projects
- Future projects
- Other issues
- 10 year horizon
- Last revision Oct 2019



https://stfc.ukri.org/about-us/how-we-are-governed/advisory-boards-panelscommittees/nuclear-physics-advisory-panel/ Design build and commission precision instrumentaton (e.g. AGATA; J-LAB; ALICE at CERN; NuSTAR at FAIR....) and used them for UK 'buy in' at labs around the world...



M. Rudigier, Zs. Podolyák, P.H. Regan et al. Nuclear Inst. and Methods in Physics Research, A 969 (2020) 163967

# Roadmap for existing projects and future opportunities

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### Update needs Nuclear Physics Forum discussion

### **STFC Postgraduate 'Summer' School in Nuclear Physics 2022**

Held at University of Sheffield (27th March – 3rd April 2022)

58 PhD student attendees, all residential (STFC-funded) students, other students, international students and industry) Daniel Doherty

- Well received event following isolation during lockdowns
- First in-person talk for many students
- Intense programme of lectures, tutorials etc (see below)

#### Programme

Nuclear Structure (Seweryniak, Crawford, Flanegan, Gezerlis) Nuclear Astrophysics (Lotay, Kankeinan) **Reactions** (Cortina, Diaz-Torres) Hadron Physics (Hen, Bashkanov) **Applications** (Harkness-Brennan, Watts) Hands-on Tutorials - Nuclear Theory, Geant4, Data Analysis Techniques Student Talk Sessions Public Engagement (Diget) **Career Session** 

### **Career's Panel**





Organised by

**UNIVERSITY OF** IRREY

Marina Petri

Science and Technology Facilities Council



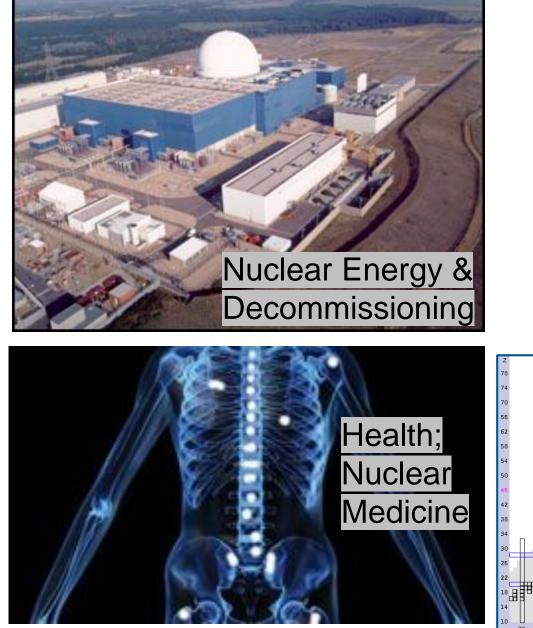
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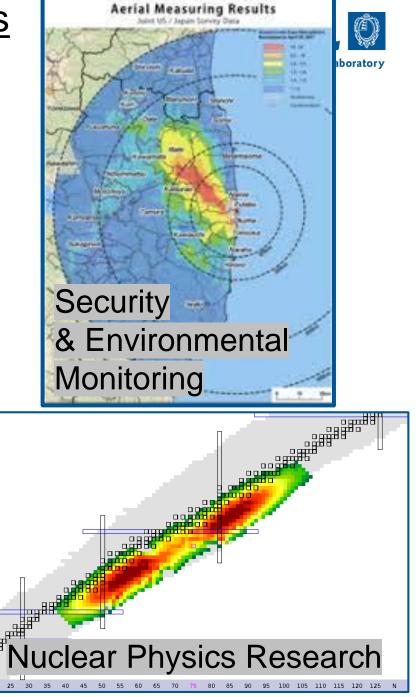




Organisers with Kayleigh Gates (Glasgow), winner of best 2<sup>nd</sup> year student talk

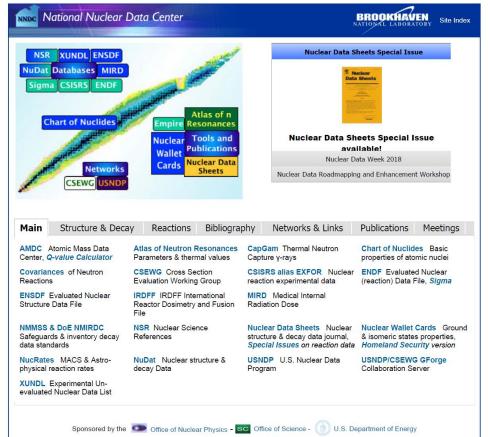
### Impact from UK nuclear physics





### Evaluated nuclear (decay) data underpins many areas.

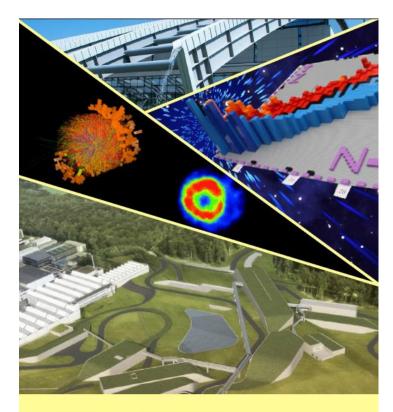
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| Value         Comments         Senset         Description         Dot         Description         Description <td>newth<br/>recer<br/>ASCI<br/>(221<br/>numt)<br/>(Hist<br/>Type<br/>Nu<br/>Ac-<br/>225<br/>Ac-<br/>228<br/>Ag-<br/>108<br/>M<br/>Ag-<br/>110<br/>110<br/>110<br/>110<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>242<br/>Ag-<br/>110<br/>Ag-<br/>110<br/>Ag-<br/>242<br/>Ag-<br/>110<br/>Ag-<br/>242<br/>Ag-<br/>110<br/>Ag-<br/>242<br/>Ag-<br/>110<br/>Ag-<br/>242<br/>Ag-<br/>110<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>110<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>110<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>242<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag-<br/>243<br/>Ag<br/>243<br/>Ag-<br/>243<br/>Ag<br/>243<br/>Ag<br/>243<br/>Ag<br/>243<br/>Ag<br/>243<br/>Ag<br/>243<br/>Ag<br/>243<br/>Ag<br/>243<br/>Ag<br/>243<br/>Ag<br/>243<br/>Ag<br/>243<br/>Ag<br/>243<br/>Ag<br/>243<br/>Ag<br/>243<br/>Ag<br/>243<br/>Ag<br/>243<br/>Ag<br/>243<br/>Ag<br/>243<br/>Ag<br/>243<br/>Ag<br/>243<br/>Ag<br/>243<br/>Ag<br/>243<br/>Ag<br/>243<br/>Ag<br/>243<br/>Ag<br/>24<br/>Ag<br/>24<br/>Ag<br/>24<br/>Ag<br/>243<br/>Ag<br/>243<br/>Ag<br/>3<br/>Ag<br/>24<br/>Ag<br/>3<br/>Ag<br/>24<br/>Ag<br/>3<br/>Ag<br/>3<br/>Ag<br/>3<br/>Ag<br/>3<br/>Ag<br/>3<br/>Ag<br/>3<br/>Ag<br/>3<br/>Ag</td> <td>II flies up<br/>nuclides<br/>ber / mail<br/>Subscrit<br/>Subscrit<br/>Subscrit<br/>225 Ac<br/>227 Ac<br/>228 Ac<br/>108 Ag<br/>1108 Ag<br/>1108 Ag<br/>1108 Ag<br/>1108 Ag<br/>247 Ac<br/>247 Ac<br/>24</td> <td>odated of sin table           in table           table</td> <td>e, sorted by yeer / edition c<br/>eluations. s<br/>DEP RSS fee<br/>new evaluat<br/>Comments<br/>comments<br/>comments<br/>comments<br/>comments<br/>comments<br/>comments<br/>comments<br/>comments<br/>comments<br/>comments<br/>comments</td> <td>alphabe<br/>date)<br/>orted by<br/>born; 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<th>update<br/>Nuc<br/>0-16<br/>P-32<br/>P-32<br/>P-32<br/>Pa-<br/>234<br/>Pa-<br/>234<br/>Pa-<br/>234<br/>Pa-<br/>234<br/>Pa-<br/>234<br/>Pa-<br/>234<br/>Pa-<br/>234<br/>Pa-<br/>234<br/>Pa-<br/>234<br/>Pa-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>212<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>Pb-<br/>21<br/>P</th> 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Acknowledgments - About Us - Comments/Questions - Disclaimer

### https://www.nndc.bnl.gov/nudat2/

### Most recent (2017) NuPECC Long Range plan. Chapter 6. APPLICATIONS AND SOCIETAL BENEFITS



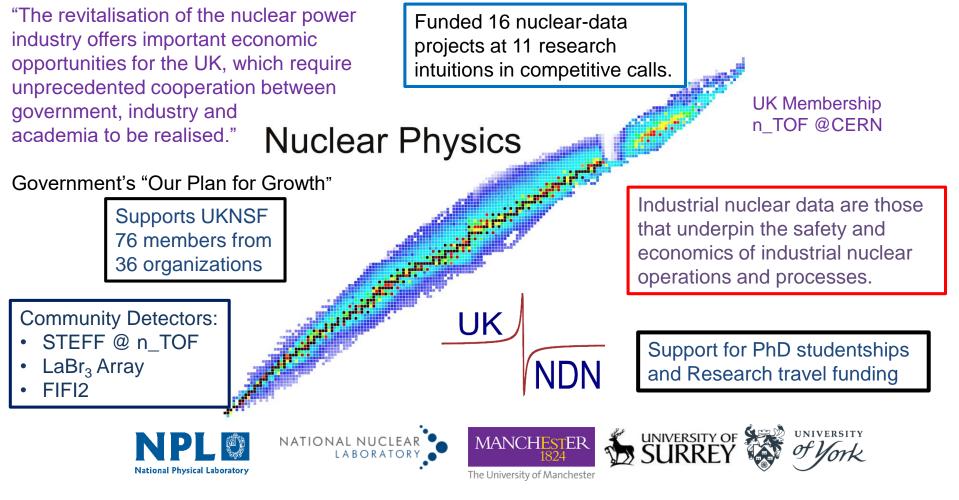


NuPECC Long Range Plan 2017 Perspectives in Nuclear Physics

- Energy production: fission, fission.
- Health applications
  - therapy; imaging; radioisotope production; theranostics, etc.
- Radioprotection / health physics.
- Environmental radioactivity, space applications, climate science.
- Cultural Heritage science.
- Nuclear security; counter terrorism; Nuclear forensics.
- Materials science, nanotechnology.

http://www.esf.org/fileadmin/user\_upload/esf/Nupecc-LRP2017.pdf

### UK Nuclear Data Network+ (UKNDN)



### Primary standard of radioactivity standard for 60Co

### <u>using $\gamma$ - $\gamma$ energy coincidences with NANA</u>

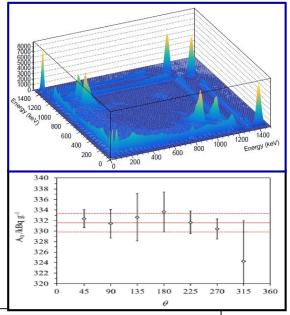


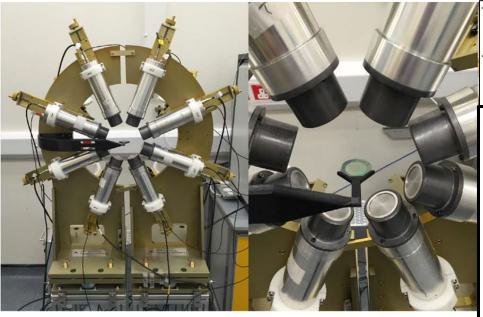
journal homepage: www.elsevier.com/locate/apradiso

Investigation of  $\gamma\text{-}\gamma$  coincidence counting using the National Nuclear Array (NANA) as a primary standard

S.M. Collins<sup>a,b,\*</sup>, R. Shearman<sup>a,b</sup>, J.D. Keightley<sup>a</sup>, P.H. Regan<sup>a,b</sup>

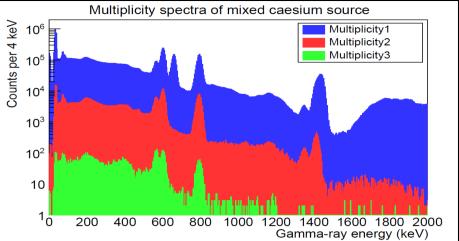
<sup>a</sup> National Physical Laboratory, Hampton Road, Teddington, Middlesex TW11 0LW, United Kingdom <sup>b</sup> Department of Physics, University of Surrey, Guildford GU2 7XH, United Kingdom

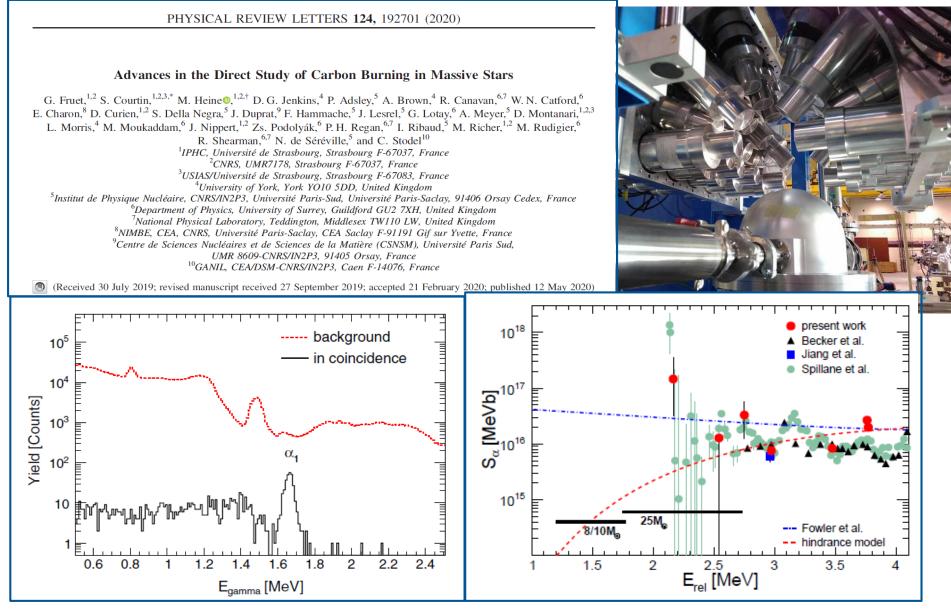




Standardisation technique	<i>A</i> ₀ ∕kBq g <sup>−1</sup>	u (A <sub>0</sub> ) /kBq g <sup>-1</sup>
NANA $\gamma \gamma$ coincidence counting $4\pi(LS)$ - $\gamma$ DCC	330.8 330.92	$^{\pm}$ 1.0 $^{\pm}$ 0.86

Applied Radiation and





Understanding of the creation of Ne and Na in stellar burning. NANA detectors measure <sup>12</sup>C+<sup>12</sup>C nuclear fusion probability.

### Nuclear Data for Nuclear Power Generation.

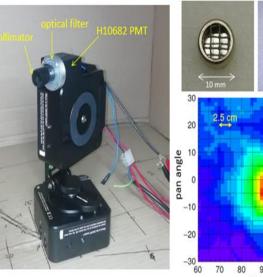
- Design and construction of detector setup for alpha emitters in **Sellafield** Special Nuclear Material stores.
- Work was carried out in B47, enabling use of strong neutron sources e.g. <sup>252</sup>Cf.
- Applications for safety, security and decommissioning.
- Testing of novel ion chamber design with U.Manchester and NNL, along with investigation of <sup>236</sup>U cross sections.
- Support for Advanced Fuel Cycle Programme.

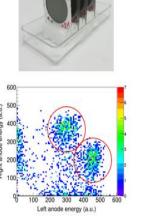
Giuseppe Lorusso & Michael Bunce

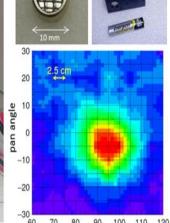












Tilt angle





## University of Manchester: STEFF @ n\_TOF

UK NDN

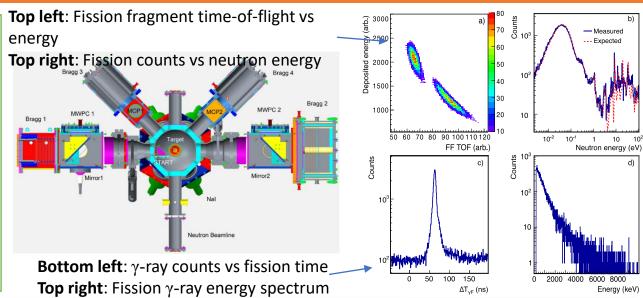
Spectrometer for Exotic Fission Fragments: A.G. Smith, T. Wright, N. Sosnin, S. Bennett, et al.

#### Goal:

 Provide data for NEA HPRL entry on <sup>235</sup>U and <sup>239</sup>Pu Prompt Fission γ-Rays (average energies and multiplicities)

#### **Realisation:**

 Measure fission with 2E2v device STEFF and corresponding γs with Nal and LaBr<sub>3</sub> detectors



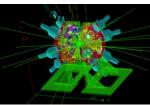
#### <sup>235</sup>U target



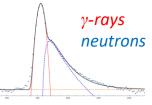
#### <sup>239</sup>Pu target



#### Geant4



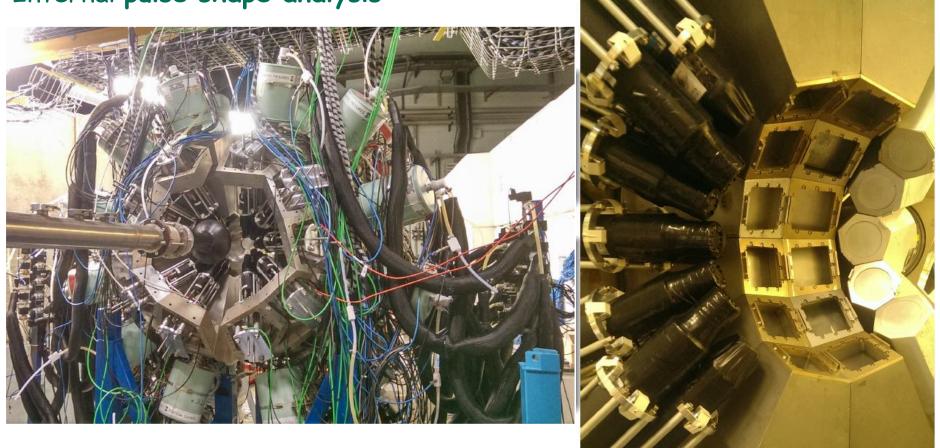
#### Fission neutron removal N. Colonna et al., "The fission



experimental programme at the CERN n TOF facility: status and perspectives", *Eur. Phys. J. A (2020) 56: 48. DOI: http://dx.doi.org/10.1140/epja/s10050-020-00037-8* 

### v-Ball at IPN-Orsay: 'Hybrid' HPGe -LaBr<sub>3</sub> combined array.

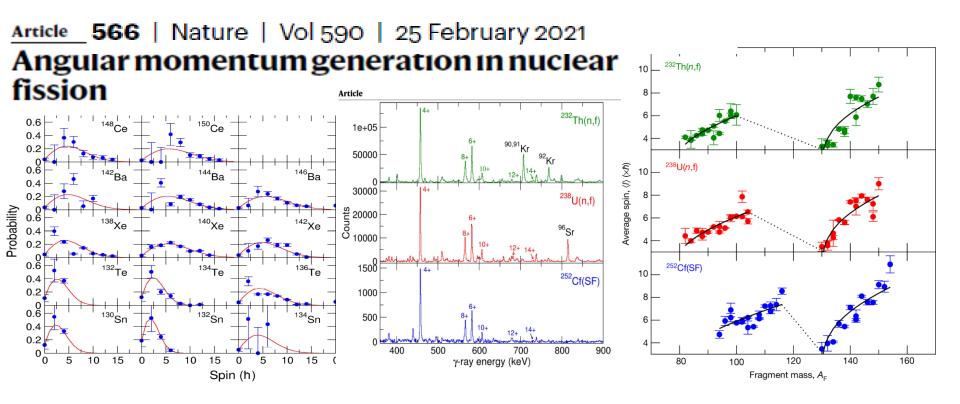
- 20 LaBr<sub>3</sub> detectors with from FATIMA -time resolution ~250 ps
- 24 HPGe clover detectors with BGO shielding for Compton Suppression
- 10 coaxial HPGe detectors with BGO shielding
- FASTER Digital DAQ: 500 MHz sampling for the LaBr<sub>3</sub> detectors; 125 MHz sampling for the HPGe and BGO detectors
- Internal pulse shape analysis



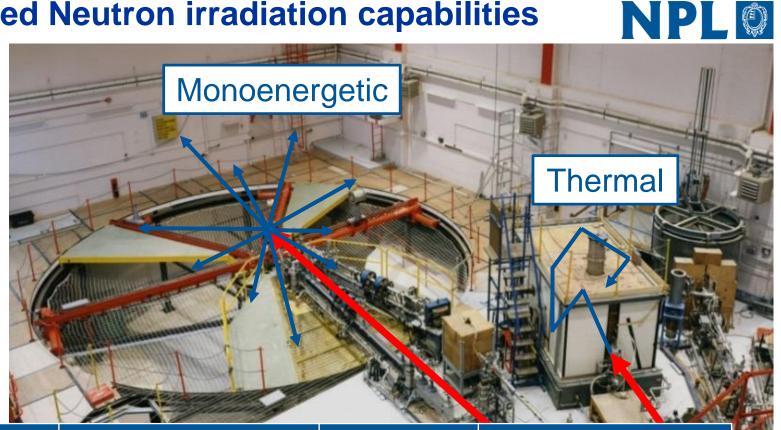
### NuBall – Attacking an 80 year problem The generation of angular momentum in nuclear



- fission Fast-neutron fission on Th and U targets.
  - Measure the angular momentum of fragments.
  - Precision high-resolution ID of the coincident gamma cascades.
  - The angular momentum between fragment pairs NOT correlated!
  - Huge challenge to understanding of the nuclear fission process.



### **UK-based Neutron irradiation capabilities**



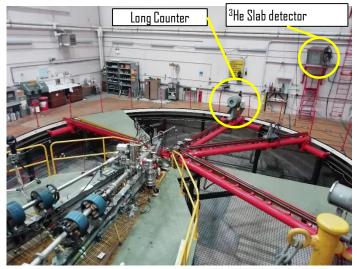
20

Beam Energy (MeV)*	Neutron Energy range (MeV)	Reaction	Max fluence at 1 m (cm <sup>-2</sup> s <sup>-1</sup> )
2.905-2.945	0.001  ightarrow 0.05	<sup>45</sup> Sc(p,n) <sup>45</sup> Ti	~ 8
1.925-2.355	0.05  ightarrow 0.63	<sup>7</sup> Li(p,n) <sup>7</sup> Be	500 → 2000**
1.450-2.985	$0.63 \rightarrow 2.2$	T(p,n) <sup>3</sup> He	1200 → 2100**
0.880-2.740	$4 \rightarrow 6$	D(d,n) <sup>3</sup> He	~ 850
0.880-2.550	<b>13</b> → <b>19</b>	T(d,n) <sup>4</sup> He	~ 620

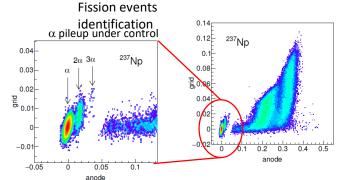
### Toward <sup>237</sup>Np(n,f) and <sup>238</sup>U(n,f) reference cross sections



- NPL Low scattering area 18m x 18m x 26m
- Well known neutron fluence (within 2%)



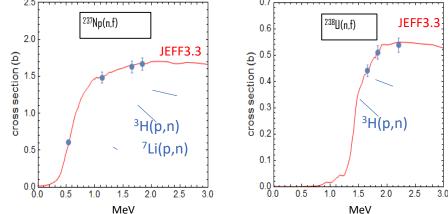
Neutron Flux measurement



TFGIC and targets from JRC (Geel)

#### Results are promising, agree with current libraries, more work needed to:

- Improve reproducibility of the fission target position
- reduce error bars and more energies for  $^{238}{\rm U}$   $\rightarrow$  more neutrons needed (working on this with AFCP)
- 2/3 of the GEN-IV reactors are fast reactors
- Fast <sup>237</sup>Np(n,f) <sup>238</sup>U(n,f) are better reference cross section than <sup>235</sup>U(n,f)
- NPL absolute cross section will contribute the evaluation effort toward making <sup>237</sup>Np and <sup>238</sup>U standards



# Can irradiate U targets for standardised noble gaseous radioactive (Kr, Xe) sources

#### Journal of Environmental Radioactivity 238-239 (2021) 106733



Journal of Environmental Radioactivity



journal homepage: www.elsevier.com/locate/jenvrad

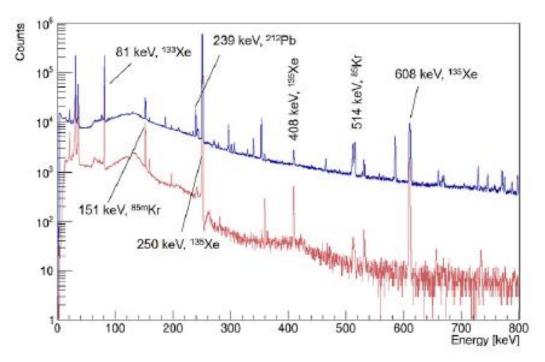
Production and measurement of fission product noble gases

Matthew A. Goodwin<sup>a,b,\*</sup>, Steven J. Bell<sup>c</sup>, Richard Britton<sup>d</sup>, Ashley V. Davies<sup>a</sup>, Marc Abilama<sup>c</sup>, Sean M. Collins<sup>b,c</sup>, Robert Shearman<sup>c</sup>, Patrick H. Regan<sup>b,c</sup>

<sup>a</sup> AWE Aldermaston, Reading, Berkshire, RG7 4PR, UK

<sup>b</sup> Department of Physics, University of Surrey, Guildford, GU2 7XH, UK

<sup>e</sup> National Physical Laboratory, Teddington, Middlesex, TW11 0LW, UK



#### Table 3

Nuclide identification from a peak search of the  $\gamma$ -ray spectrum from Extraction 1 using the full acquisition (t = 170,731 s).† X-rays from Xe/Cs minus Ge fluoresence (escape peak). The relative  $\gamma$ -ray intensity is the full energy peak integral divided by the simulated  $\gamma$ -ray detection efficiency, decay-corrected to the start of the acquisition relative to the 250 keV  $^{135}$ Xe peak (see Eq. (1)).

	Fitted Energy (keV)	Parent Nucleus	Signature Type	γ-ray emission probability (%)	Rel. γ-ray Intensity (RGI) ( × 1000)	Comment
	20.4	Xe/Cs <sup>†</sup>	e <sup>-</sup> -X	_	_	Multiplet
	30.7	Xe/Cs X	e <sup>-</sup> -X	-	_	Multiplet
		$K_{\alpha}$				-
	35.3	Xe/Cs X	e <sup>-</sup> -X	-	-	Multiplet
		$K_{\beta}$				
	80.9	<sup>133</sup> Xe	$\beta - \gamma$	37.3(4)	47.4(7.1)	81.0 + 79.6 keV
	122.8	<sup>88</sup> Kr	$\beta - \gamma$	0.20(1)	0.807(12)	
	129.1	<sup>85m</sup> Kr	$\beta - \gamma$	0.30(8)	4.73(71)	
	151.4	<sup>85m</sup> Kr	$\beta - \gamma$	75.2(8)	38.1(5.7)	
	158.6	<sup>135</sup> Xe	$\beta - \gamma$	0.29(1)	2.40(36)	
	196.6	<sup>88</sup> Kr	$\beta - \gamma$	26(1)	4.42(67)	
	233.4	<sup>133m</sup> Xe	γ	10.1(2)	0.65(98)	
	240.6	<sup>88</sup> Kr	$\beta - \gamma$	0.25(1)	0.78(12)	
	250.2	<sup>135</sup> Xe	$\beta - \gamma$	90.0(3)	1000(7)	
	305.1	<sup>85m</sup> Kr	$\beta - \gamma$	14.0(4)	5.32(80)	$^{85m}$ Kr $>$
						<sup>85</sup> Kr
	358.5	<sup>135</sup> Xe	$\beta - \gamma$	0.22(1)	1.94(29)	
	390.0	<sup>88</sup> Kr	$\beta - \gamma$	0.64(5)	0.87(14)	
	407.7	<sup>135</sup> Xe	$\beta - \gamma$	0.36(2)	5.83(88)	
	438.9	<sup>88</sup> Rb	$\beta - \gamma$	0.015(4)	1.35(21)	
	451.1	<sup>85m</sup> Kr	$\beta - \gamma$	0.011(4)	0.88(14)	
	454.4	<sup>135</sup> Xe	$\beta - \gamma$	0.004(1)	0.55(9)	
	514.3	<sup>85</sup> Kr	γ	0.43(1)	4.76(72)	$^{85}{ m Kr} > {}^{85}{ m Rb}$
	526.4	<sup>135m</sup> Xe	γ	80.6(6)	35.5(5.4)	
	530.3	<sup>133</sup> I	$\beta - \gamma$	87(2)	2.81(42)	
	608.3	<sup>135</sup> Xe	$\beta - \gamma$	2.9(1)	81.4(1.2)	<sup>214</sup> Bi
		105				Interference
	731.9	<sup>135</sup> Xe	$\beta - \gamma$	0.055(4)	0.39(6)	
	834.9	<sup>88</sup> Kr	$\beta - \gamma$	13(2)	6.75(10)	
	898.2	<sup>88</sup> Rb	$\beta - \gamma$	14.4(2)	1.73(27)	
_	1836.5	<sup>88</sup> Rb	$\beta - \gamma$	22.8(1)	5.07(78)	

### UK NP Radioactive Gas Metrology

### **UK Nuclear** expertise in

- A) Neutron activation facility & source prep;
- B) Gas metrology, transport and engineering;
- C) Gamma-ray and electron spectrometry;
- D) Nuclear data analysis and interpretation.

### Clear, direct impact in:

- Energy & Environment: standardisations of <u>radioactive Krypton</u>. Real time signatures for reactor criticality.
- **2)** Security & Resilience: New methodologies developed in collaboration with AWE & CTBTO for radioactive Xenon weapon signatures.

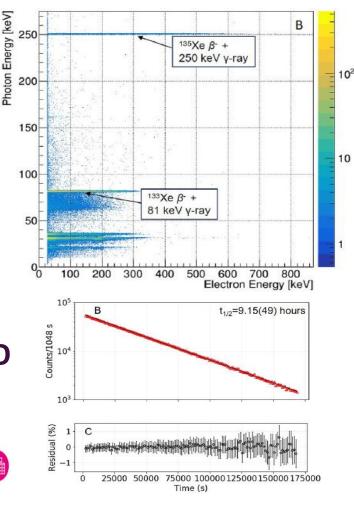




#### Production and measurement of fission product noble gases

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## **UK Nuclear Physics**



### Next community meeting ~Jan 2023