

Report from Cross Community Group

Tom Davinson
University of Edinburgh

t.davinson@ed.ac.uk

STFC Nuclear Physics Cross Community

Cross Community Committee Members

- Tom Davinson (chair)
- Ralf Kaiser
- Alison Laird
- Ken Livingston
- Rob Page
- John Simpson / Marc Labiche
- Gavin Smith

Cross Community Posts

STFC Daresbury Laboratory

Michael Cordwell – Design Engineer
Moschos Kogimtzis – Electronics Engineer
James Lawson – Electronics engineer
Ian Lazarus – Electronics Engineer
Paul Morrall – Target maker, technician
Richard Smith – Mechanical/Design Engineer
Carl Unsworth – Software Engineer

Liverpool

Dan Judson – Software Engineer
Dave Seddon – Design Engineer
Jim Thornhill – Electronics Engineer
Dave Wells – Electronics Engineer

Manchester

Andy Smith – Design Engineer

Our thanks to

Alan Grant – retired June 2020

replaced by Richard Smith

Ian Burrows – retired September 2020

replaced by Michael Cordwell

Vic Pucknell – retired December 2020 – visiting scientist

Electronics & Software Support Activities 2020/1

- R3B silicon tracker
 - AGATA ongoing support of AGATA & next phase project definition
 - ISOL-SRS Build of Si detector array in LSDC
 - ISOL-SRS Support of DAQ systems at CERN, GSI and Liverpool
 - AIDA @ RIKEN, AIDA @ DESPEC
 - Timepix3 project for pair polarimeter and focal plane microscope
 - JYFL timestamp acquisition system (MIDAS update) and production of ZyDF clock modules.
 - MINIBALL DAQ with FEBEX – New trigger system and MIDAS GUI
 - Applied projects – GRi (Gamma-Ray imager), MBI (Molecular Breast Imaging), CapeSym TIBr
 - Interface and readout system for CAEN digitisers.
- Other generic CC support
 - WWW
 - Systems support
 - MIDAS
 - CAEN digitizer
 - Merger 2.0
 - Grant preparations
 - Laboratory operations

Mechanical Design & Technical Support Activities 2020/1

- AGATA support structure for PPRP grant
- R3B ongoing silicon tracker development, tests with laser
- ISOL-SRS:
 - WP2 (CARME) Mechanical design, integration, testing, installation and commissioning at ETC
 - WP4 (ISS) Redesign of shield mount mechanism and an upgrade to stabilise the detector support.
 - Support for superconducting solenoid at CERN
 - Recoil Detector
- Applied projects – 3D gamma imager (IPS)
- Triple Plungers (Miniball and JYFL)
- SHARC2 @ ELIADE, ALIGANT @ ELI-NP, and MARA Beamline including MARA-LEB conceptual design
- FiFI, STEFF, CRIS
- ProSPECTus (Medical imaging device), cryostat optimisation undertaken.
- NEDA concept design for AI structure
- GAMKA at iThemba (structural analysis)

STFC NP Consolidated Grant 1.10.21-30.9.24

STFC CCC meets Wednesday 27 January 2021

NPGP CC FTE allocation

10.3 FTE/year (3.8 electronics, 3.5 mechanical, 2.0 software, 1.0 technical)

NPGP theme prioritisation

STFC Projects

implementation plan

FTE themes/projects

profile

Further information

<http://npg.dl.ac.uk/XCommunity/>

CC Requests

Please contact relevant coordinator to discuss requirements

- Electronics Engineering Coordinator Ian Lazarus
- Software Engineering Coordinator Marc Labiche
- Mechanical Engineering Coordinator Richard Smith