



Positive Spin

The Newsletter of the ISIS Muon Group

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News

WELCOME

"Welcome. Big changes in both the Muon group and FAP6, which I am pleased to now chair. FAP6 may now count also on the contribution of another expert, Tom Lancaster (Durham). ISIS muon facilities are being constantly upgraded to allow users to exploit +ve or -ve spins so we look forward to your proposals and meeting students on next year's school. [Pietro](#)

NEW DIRECTIONS IN μ SR

A workshop to consider new applications of the μ SR technique was hosted by Alan Drew at Queen Mary University, London, on the 3-4 Sept. Sponsored by the EU under NMI3, sessions focussed on measurements from soft matter systems and the development of novel experimental methods for

Instrumentation

MUON VILLAGE GETS PLANNING PERMISSION



The muon village project is a 3-phase initiative to enhance user experience when performing muon experiments. Stage 1 saw relocation of the MuSR cabin. Stages 2 and 3, scheduled for completion in Oct, will see incorporation of a bridge to connect all cabins directly with the muon

Any other business...

PUBLICATIONS Please inform your local contact and the ISIS User Office of publications arising from work on Muon instruments. A link to the work can then be included on the STFC publications database: <http://epubs.stfc.ac.uk>

ISIS Access

Next proposal deadline:

16th October 2015

studying excited states; such as the [MuSES project](#). The programme also considered the phenomena of muon induced perturbation and its impact on muon experiments. For further details and abstracts click [here](#)



GOODBYE JAMIE, HELLO PABITRA, ADAM AND TOM

Its all change in the muon group. August saw us say goodbye to Jamie Peck but hello to Pabitra Biswas, Adam Berlie and Tom Loe (see [e-learning](#)). Pabitra will assume responsibilities on MuSR and Adam will focus on supporting RIKEN users

RIKEN-RAL MILESTONE!

The RIKEN-RAL Muon Facility has just celebrated 20 years of operation and 25 years since signing of the first agreement to operate the facility here at RAL. For more information click [here](#)



We will make use of these materials at the next muon school and publish online in 2016. Suggestions for training content are welcome; email [Tom](#)

MUON ONE-STOP-SHOP(s)

As well as our own ISIS group [web pages](#), a wealth of information about muons, from instrument overviews to joint research activities (JRA's), can be found on the NMI3 [homepage](#) as well as at the NMI3 supported [muonsources.org](#)

GO WITH THE FLOW

A user manual for the muon beam line flow cryostats is now available. To view it, click [here](#)

Science highlights

PAPERS RESULTING FROM ISIS WORK ARE AN IMPORTANT OUTPUT AND INCREASINGLY USED AS A MEASURE OF THE VALUE OF THE FACILITY. PLEASE KEEP US UP TO DATE WITH YOUR PUBLICATIONS. WE HAVE COMPILED LISTS FOR RECENT YEARS THAT ARE NOW AVAILABLE AT WWW.ISIS.STFC.AC.UK/GROUPS/MUONS/PUBLICATIONS PLEASE INFORM US IF ANY ARE MISSING.

- MUSR AND NEUTRON DIFFRACTION INVESTIGATIONS ON THE REENTRANT FERROMAGNETIC SUPERCONDUCTOR EU (Fe_{0.86}Ir_{0.14})₂As₂
- MONTE CARLO SIMULATIONS OF THE MUSR SPECTROMETER AT ISIS - CURRENT INSTRUMENT AND FUTURE DESIGNS
- EVIDENCE FOR MAGNETIC CLUSTERS IN Ni_{1-x}V_x CLOSE TO THE QUANTUM CRITICAL CONCENTRATION
- 13TH INTERNATIONAL CONFERENCE ON MUSR
- UNIVERSALITY CLASS OF THE MOTT TRANSITION
- HYDROGEN STORAGE MECHANISM AND LITHIUM DYNAMICS IN Li_{1-2x}C₆₀ INVESTIGATED BY MUSR

Dates for your diary

- ISIS PROPOSAL DEADLINE: 16 OCT 2015
- MANTID TRAINING COURSES, 21 - 23 SEPTEMBER 2015
- FINAL NMI3-II GENERAL ASSEMBLY AND SINE2020 KICK-OFF MEETING, 14 - 16 OCTOBER 2015
- MUON SPECTROSCOPY TRAINING SCHOOL, ISIS FACILITY, RAL, 14 - 18 MARCH 2016

Further information: [Muon Group Homepage](#) - [Group Members](#) - [HiFi](#) - [MuSR](#) - [EMU](#) - [ARGUS](#)

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