



Positive Spin

The Newsletter of the ISIS Muon Group

Volume 7, Issue 2, April 2018

News

WELCOME

"Dear Colleagues. It's an exciting time for the group as it assumes responsibility for the RIKEN-RAL facility which affords the possibility to develop new capabilities and increase capacity. Hopefully the students who attended the recent Muon Training School will be the first to benefit. Do come along to the User Meeting to hear more. As always, FAP6 wants to support your research as best it can so please keep submitting proposals but note the new deadline dates. Best wishes, Aidy"

MUON TRAINING SCHOOL

In March 2018 we held our biennial muon spectroscopy training school. It was attended by 31 participants with students coming from as far away as India and China. In five days

they attended 18 hours of lectures and three practical sessions on the muon beam lines. Thanks to all the students, group members and lecturers for making such a successful school.

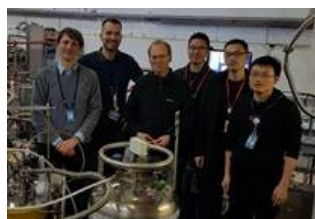


ISIS IMPACT AWARD

We are pleased to announce the ISIS Neutron and Muon Source impact Awards! These awards celebrate contributions that ISIS research makes to the economy, society and scientific community. For more information click [here](#)

Instrumentation

CSNS DETECTOR TESTS



Zi-Wen Pan from Prof. Bangjiao Ye's group at USTC visited ISIS this year to learn about muon detector design and construction. In March he was joined by two fellow group members to test the first prototype detectors

and electronics for their instrument, in collaboration with the ISIS detector and muon groups

RIKEN-RAL Transfer

On April 1st 2018 (no, it's not a joke!) ISIS assumed responsibility for the RIKEN-RAL facility as it transfers to STFC ownership. Acquiring the RIKEN facility is an exciting prospect and we are currently looking to refurbish the facility to develop unique capabilities and provide greater capacity.

Muon Spectroscopy User Meeting : Future Developments and Site Calculations

Mon 16th & Tues 17th July

The Cosener's House,
Abingdon, UK

To mark a new agreement between ISIS and RIKEN for future operation of the RIKEN-RAL facility and to highlight plans for a major upgrade of MuSR, we are planning a User Meeting discussing the development of new instrumentation at ISIS. Talks will focus on the scientific opportunities that these developments will bring. We are also planning to include a session discussing muon site calculations. There is currently a major effort by a number of groups to develop new techniques in this area. All are welcome. Further details and a link to a registration website will be available [here](#)

Proposal Deadline Change

Proposal deadlines have always been 16 Apr and 16 Oct. However these dates can fall at weekends causing users inconvenience. Deadlines are therefore changing to the 3rd Weds in April/Oct. For 2018 deadlines are **18 Apr/17 Oct**

UK Neutron and Muon Science User meeting

25th - 27th April 2018

Warwick University, UK

25 April : student day
26 April : science day
27 April : user meeting

International Society for μ SR Spectroscopy (ISMS)

To join please click [here](#) or email Peter (secretary)

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. MUON AND NEUTRON RELATED PUBLICATION CAN BE BROWSED HERE: <http://epubs.stfc.ac.uk> PLEASE INFORM US IF ANY ARE MISSING. **CNTL-CLICK ON THE TITLES BELOW TO REDIRECT TO THE PUBLICATION**

- ABSENCE OF QUANTUM CRITICALITY IN GREEN DIOPHANE
- EXPLORING THE TEMPERATURE DEPENDENT SOLID-STATE ALC SPECTRUM OF THE C₆H₆MU* RADICAL WITH AB-INITIO SIMULATION TECHNIQUES
- QUANTUM SPIN LIQUID FROM A THREE-DIMENSIONAL COPPER-OXALATE FRAMEWORK
- MU₂SR STUDY ON LI IONIC CONDUCTORS
- STATIC AND FLUCTUATING MAGNETIC MOMENTS IN THE FERROELECTRIC METAL LI₂O₃
- NEW CAPABILITIES AT PULSED MUON-FACILITIES WITH PULSED RADIO-FREQUENCY TECHNIQUES
- POSSIBLE QUADRUPOLEAR NEMATIC PHASE IN THE FRUSTRATED SPIN CHAIN LI₂CuSbO₄: AN NMR INVESTIGATION

Dates for your diary

- NEXT ISIS PROPOSAL DEADLINE: 17 OCTOBER 2018
- MUON SPECTROSCOPY USER MEETING , 16TH/17TH JULY 2018, ABINGDON, UK
- UK NEUTRON AND MUON SCIENCE USER MEETING, WARWICK, UK, 25-27 APRIL

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>

CO-AUTHORS Please remember to include Muon Group staff as co-authors on publications when deemed appropriate

CYCLE DATES Forthcoming cycle dates

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

Editor: Mark Telling (mark.telling@stfc.ac.uk)