

ISIS Muon User Meeting

Wednesday December 15th, 2021

Venue: Zoom

(Speakers should allow time for discussion within their allotted time)

10:15	'Welcome'	Roger Eccleston
10:20	'News from the Facility' <i>Adrian Hillier</i>	Chair: Philip King
10:50	'Muon Impact Brochure' <i>Sara Fletcher / Mark Telling</i>	
11:00	'Super-MuSR – Plans and progress' <i>Peter Baker</i>	
11:30	'Future detector technologies and DAE for μ SR' <i>Dan Pooley</i>	
12:00	'RIKEN-RAL – Refurbishment and future operation' <i>Adam Berlie</i>	
12:30	Break	
13:30	'Scientific Computing for Muons' <i>Simone Sturniolo / Leandro Liborio</i>	Chair: Adrian Hillier
14:00	Data Analysis Software <i>'The Mantid Project' (Anthony Lim)</i> <i>'Data analysis for μSR experiments with negative muons' (George Gill / Francis Pratt)</i>	
14:30	Other news from the facility <i>new sample environment equipment (Steve Cottrell);</i> <i>muon data formats (Steve Cottrell);</i> <i>HIFI update – Magnet and Software (James Lord);</i> <i>EMU positron degrader (Leo Collins / Koji Yokoyama);</i> <i>opportunities for light stimulation experiments (Koji Yokoyama);</i> <i>Developing a New Analytical Technique for Negative Muon Elemental Analysis (Daniel Snook);</i> <i>e-Learning for muons (Madeleine McRoberts / Peter Baker)</i>	
15:00	Break	
15:10	Discussion	Chair: Joseph Wright

15:30	Early Career Presentations	Chair: <i>Adam Berlie</i>
15:30	'Energy-gap driven low-temperature magnetic and transport properties in $\text{Cr}_{1/3}\text{MS}_2$ (M = Nb or Ta)'	<i>(Thomas Hicken)</i>
15:40	'Muon spectroscopy for operando ionic diffusion measurements of lithium batteries'	<i>(Innes McClelland)</i>
15:50	'Muon Galaxy: an open-source web platform for muon science'	<i>(Eli Chadwick)</i>
16:00	'Muon spectroscopy for the temperature dependence of hopping in various hard-carbon'	<i>(Evangelin Hutamaningtyas)</i>
16:10	'Muons to the rescue: application of Muonic X-ray emission spectroscopy (μXES) for non-destructive measurements'	<i>(Matteo Cataldo)</i>
16:20	'General way to extract electron spin relaxation from muon spin spectroscopy'	<i>(Lichang Zhang)</i>
16:30	'Quantum Information: How does it μve through fluorides?'	<i>(Jonathon Wilkinson)</i>
16:40	Close	