ISIS Muons Illumination Workshop

Thursday December 16th, 2021

Venue: Zoom

(Speakers please allow time for discussion within their allotted time [30 min])

10:00 'Welcome'
Koji Yokoyama (ISIS Neutron and Muon Source, UK)

Chair: *Adrian Hillier*

10:10 'Photoexcited μSR technique at ISIS'
'Carrier-Muonium interaction in n-type GaAs'
Koji Yokoyama (ISIS Neutron and Muon Source, UK)

10:40 'Detection of functional processes of photoreceptive proteins by muon'
Tamiko Kiyotani (Showa Pharmaceutical University, Japan)
Keiichi Inoue (University of Tokyo, Japan)

11:10 'Using photomusr to probe excitons in organic semiconductors'
Alan Drew (Queen Mary University of London)

11:40 'Direct detection of photo-induced manipulation of charge carrier-density profiles at the surface of Ge'
Thomas Prokscha (Paul Scherrer Institut, Switzerland)

12:10 Lunch

Chair: *James Lord*

13:10 'Mobile ions in lead halide perovskites – investigating the impact of mobile ions on light and dark measurements of perovskite solar cells'
Petra Cameron (University of Bath)

13:40 'Carrier lifetime effects in Silicon Carbide (4H-SiC) for power electronics - a potential for photoexcited μSR depth profiling'
Vishal Shah (University of Warwick)

14:10 'Photo-excitation of muonium centres in semiconductors'
Rui Vilao (University of Coimbra, Portugal)

14:40 'The FAMU experiment: A high precision physics measurement with Muonic hydrogen'
Andrea Vacchi (INFN Trieste, Italy)

15:10 Coffee

Chair: *Mark Telling*

15:20 'Muon spin spectroscopy for carrier lifetime measurements in silicon photovoltaics'
John Murphy (University of Warwick, UK)

15:50 'Probing radiation and free radical chemistry by illuminating systems with muons and electromagnetic fields'
Khashayar Ghandi (University of Guelph, Canada)

16:20 ‘Discussion’
Mark Telling (ISIS Neutron and Muon Source, UK)

16:50 Close