

## Correlated Disorder workshop, February 25 and 26, 2020

### Program

25<sup>th</sup> Feb 2020

09.00-9.15	Welcome	
	<i>Chairperson: Romain Sibille</i>	
09.15-10.00	Correlated Disorder by Design	Andrew Goodwin (Oxford)
10.00-10.45	On the origins, ubiquity and the need for a new language to classify correlated disorder	Simon Billinge (Columbia University)
10.45-11.15	Coffee	
	Chairperson: Ross Stewart	
11.15-12.00	Correlated Disorder in Fluoride Pyrochlores	Steve Bramwell (UCL)
12.00-12.15	The charge-ice state in CsNiCrF <sub>6</sub>	Amirreza Hemmatzade (PSI)
12.15-13.30:	Lunch	
	<i>Chairperson: Michel Kenzelmann</i>	
13.30-14.15	Chirality and disorder in cuprates	José Lorenzana (Sapienza-ISC-CNR)
14.15-14.45	Fragile order in Mo <sub>x</sub> V <sub>1-x</sub> O <sub>2</sub>	Matthew Krogstadt (ANL)
14.45-15.30	Correlated Cu-Fe chemical disorder and its link with magnetic frustration in YBaCuFeO <sub>5</sub>	Marisa Medarde (PSI)
15.30-16.00	Spontaneous chiral symmetry breaking from correlated frustrating disorder	Markus Müller (PSI)
16.00-16.30	Coffee	
	<i>Chairperson: Andrew Goodwin</i>	
16.30-17.15	Quasiparticle dynamics in the presence of structural disorder	Jennifer Niedziela (ORNL)
17.15-18.00	Common acoustic phonon lifetimes in inorganic and hybrid lead halide perovskites	Manila Songvilay (Edinburgh)
18.00-18.30	Oxiborates: Low dimensionality and magnetic frustration	Cynthia Paola Contreras Medrano (Centro Brasileiro de Pesquisas Físicas)

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08.30-09.15	Hidden order in disordered Prussian Blue analogues crystals	Arkadiy Simonov (ETHZ)
09.15-09.30	Structural analogs of complex magnetic phases	Emma Wolpert (Oxford)
09.30-10.15	Correlated disorder and charge ordering in spin ice models and materials	Peter Holdsworth (ENS-Lyon)
10.15-10.45	Coffee	
	<i>Chairperson: Peter Holdsworth</i>	
10.45-11.15	Octupole ice in Ce <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> quantum spin liquid	Romain Sibille (PSI)
11.15-11.45	Magnetic order and excitations in frustrated pyrochlore oxides: influence of disorder	Yixi Su (JCMS)
11.45-12.15	Spin orbital glass in a model frustrated pyrochlore magnet without quenched disorder	Chisa Hotta (University of Tokyo)
12.15-12.30:	Disorder-induced correlated phases in non-Kramers rare-earth pyrochlores	Victor Poree (PSI)
12.30-13.45	Lunch	
	<i>Chairperson: Markus Müller</i>	
13.45-14.30	Dimer models on quasicrystals	Siddharth Parameswaran (Oxford)
14.30-15.00	Correlated randomness in Fock space and origins of many-body localization	Sthitadhi Roy (Oxford)
15.00-15.30	Coffee	
	<i>Chairperson: Marisa Medarde</i>	
15.30-16.00	$\beta$ -Mn – elemental spin liquid with a complex structure	Ross Stewart (ISIS)
16.00-16.30	Topology, frustration, and disorder in novel geometries of artificial spin ice	Peter Schiffer (Yale)