## **Detailed program Correlated Disorder 2024**

## Tuesday 27<sup>th</sup> February

9.00-9.10: <b>Welcome</b>
Structures with correlated disorder (Arkadiy Simonov)
9.10-9.55: Truchet-tile architectures in materials chemistry, Andrew Goodwin
9.55-10.40: Frustration and correlation in superionic conductors, Brandon C. Wood
10.40-11.10 <b>Coffee</b>
Structures with correlated disorder, continued (Brandon Wood)
11.10-11.50: Modelling O/F ordering in inorganic oxyfluorides, Monique Body
11.55-12.15: Disorder-induced conductivity in fully reduced solid electrolytes for batteries,
Theodosios Famprikis
12.15-13.20: <b>Lunch</b>
12.13 13.20. <b>Editori</b>
Disorder and magnetism (Jonathan White)
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13.20-14.05: Tuning magnetoelectricity in a mixed-anisotropy antiferromagnet, Ellen Fogh
14.05-14.25: Room temperature magnetic spirals by design, Marisa Medarde
14.25-14.45: Study on the effect of Fe and Sb doping in the magnetic frustration of
Sr <sub>2</sub> Cu(W <sub>0.5</sub> Te <sub>0.5</sub> )O <sub>6</sub> perovskite, <u>Cynthia P. C. Medrano</u>
14.45-15.05: Emergence of highly coherent two-level systems in a noisy and dense quantum
network, Markus Müller
15.05-15.35 <b>Coffee</b>
Theory (Markus Müller)
15.35-16.20: Fully packed loops, Henrik Schou Roising
16.20-17.05: Effects of critical magnetic fluctuations on skew scattering and thermoelectric effects,
<u>Tim Ziman</u>
Posters and dinner
17.05-18.15 <b>Posters</b>
18.15 Dinner

## Wednesday 28<sup>th</sup> February

Pyrochlores and charge ice (Tim Ziman)
. The state of the
8.55-9.40: Fluctuation-induced spin nematic order in magnetic charge-ice, Peter M Derlet
9.40-10.25: Collective magnetic state induced by charge disorder in the non-Kramers rare-earth
pyrochlore Tb₂ScNbO <sub>7</sub> , <u>Virginie Simonet</u>
10.25-10.55: <b>Coffee</b>
Pyrochlores and charge ice, continued (Gavin Macauley)
10.55-11.15: From the modelling of structural disorder towards the understanding of magnetic properties in Tb2Hf2O7, Romain Sibille
11.15-11.35: Enhanced quantum spin dynamics in substituted non-Kramers spin ice Ho <sub>2</sub> (Ti <sub>(1-</sub>
x)Hfx)2O7, Nathan Bujault
11.35-11.50: A symmetry sustaining quantum phase transition in kagome ice, Peter Holdsworth
11.55-12.15: Algebraic loop liquid in CsNiCrF <sub>6</sub> , Amirreza Hemmatzade
12.15-13.20 Lunch
Diffuse scattering (Andrew Goodwin)
12.20.14.05. Chamical and Magnatic Evictorian in Quantum Magnata Los Paddison
13.20-14.05: Chemical and Magnetic Frustration in Quantum Magnets, Joe Paddison
14.05-14.50: Interaction space modelling for the analysis of structural disorder diffuse scattering, Ella M Schmidt
14.50-15.10: Origin of correlated diffuse scattering in the hexagonal manganites, <u>Tara N. Tošić</u>
15.10-15.40 <b>Coffee</b>
Disorder and magnetism, continued (Peter Holdsworth)
15.40-16.00: From order to randomness: Onset and evolution of the random-singlet state in bond-
disordered 1D systems, Toni Shiroka
16.00-16.20: Phase Transitions and Magnetic Order in a Ruby Lattice Artificial Spin Ice, <u>Luca</u>
Berchialla 16.20-16.40: Towards Dynamics of Correlated Disorder with High Brilliance X-rays, Nelson Hua
10.20-10.40. Iowards Dynamics of Correlated Disorder With Fight Diffidite A-rays, Nelson Flua