

# **Correlated Disorder workshop**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

# Welcome

*Tuesday, 25 February 2020 09:00 (15 minutes)*

Contribution ID: 2

Type: **not specified**

## Correlated Disorder by Design

*Tuesday, 25 February 2020 09:15 (45 minutes)*

**Presenter:** GOODWIN, Andrew

Contribution ID: 3

Type: **not specified**

## **On the origins, ubiquity and the need for a new language to classify correlated disorder**

*Tuesday, 25 February 2020 10:00 (45 minutes)*

**Presenter:** BILLINGE, Simon (Columbia University)

Contribution ID: 4

Type: **not specified**

## Correlated Disorder in Fluoride Pyrochlores

*Tuesday, 25 February 2020 11:15 (45 minutes)*

**Presenter:** BRAMWELL, Steve (UCL)

Contribution ID: 5

Type: **not specified**

## The charge-ice state in CsNiCrF<sub>6</sub>

*Tuesday, 25 February 2020 12:00 (15 minutes)*

**Presenter:** HEMMATZADE , Amirreza (Paul Scherrer Institut)

Contribution ID: 6

Type: **not specified**

## Chirality and disorder in cuprates

*Tuesday, 25 February 2020 13:30 (45 minutes)*

**Presenter:** LORENZANA, José (Sapienza-ISC-CNR)

Contribution ID: 7

Type: **not specified**

## Fragile order in MoxV1-xO2

*Tuesday, 25 February 2020 14:15 (30 minutes)*

**Presenter:** KROGSTADT, Matthew (ANL)



Contribution ID: 8

Type: **not specified**

## **Correlated Cu-Fe chemical disorder and its link with magnetic frustration in YBaCuFeO<sub>5</sub>**

*Tuesday, 25 February 2020 14:45 (45 minutes)*

**Presenter:** MEDARDE, Marisa (Paul Scherrer Institut)

Contribution ID: 9

Type: **not specified**

## **Spontaneous chiral symmetry breaking from correlated frustrating disorder**

*Tuesday, 25 February 2020 15:30 (30 minutes)*

**Presenter:** MÜLLER, Markus

Contribution ID: **10**

Type: **not specified**

## **Quasiparticle dynamics in the presence of structural disorder**

*Tuesday, 25 February 2020 16:30 (45 minutes)*

**Presenter:** NIEDZIELA, Jennifer (ORNL)

Contribution ID: 11

Type: **not specified**

## **Common acoustic phonon lifetimes in inorganic and hybrid lead halide perovskites**

*Tuesday, 25 February 2020 17:15 (45 minutes)*

**Presenter:** SONGVILAY, Manila (Edinburgh)

Contribution ID: 12

Type: **not specified**

## **Correlated disorder and charge ordering in spin ice models and materials**

*Wednesday, 26 February 2020 09:30 (45 minutes)*

**Presenter:** HOLDSWORTH , Peter (ENS-Lyon)

Contribution ID: 13

Type: **not specified**

# Octupole ice in Ce<sub>2</sub>Sn<sub>2</sub>O<sub>7</sub> quantum spin liquid

*Wednesday, 26 February 2020 10:45 (30 minutes)*

**Presenter:** SIBILLE, Romain (PSI)

Contribution ID: 14

Type: **not specified**

## **Magnetic order and excitations in frustrated pyrochlore oxides: influence of disorder**

*Wednesday, 26 February 2020 11:15 (30 minutes)*

**Presenter:** SU , Yixi (JCNS)

Contribution ID: 15

Type: **not specified**

## **Spin orbital glass in a model frustrated pyrochlore magnet without quenched disorder**

*Wednesday, 26 February 2020 11:45 (30 minutes)*

**Presenter:** HOTTA, Chisa (University of Tokyo)



Contribution ID: **16**

Type: **not specified**

## **Disorder-induced correlated phases in non-Kramers rare-earth pyrochlores**

*Wednesday, 26 February 2020 12:15 (15 minutes)*

**Presenter:** POREE, Victor

Contribution ID: 17

Type: **not specified**

## **beta-Mn –elemental spin liquid with a complex structure**

*Wednesday, 26 February 2020 15:30 (30 minutes)*

**Presenter:** STEWART, Ross (ISIS, Rutherford Appleton Laboratory)

Contribution ID: **18**

Type: **not specified**

## **Topology, frustration, and disorder in novel geometries of artificial spin ice**

*Wednesday, 26 February 2020 16:00 (30 minutes)*

**Presenter:** SCHIFFER , Peter (Yale)

Contribution ID: **19**

Type: **not specified**

## **Dimer models on quasicrystals**

*Wednesday, 26 February 2020 13:45 (45 minutes)*

**Presenter:** PARAMESWARAN , Siddharth (Oxford)

Contribution ID: 20

Type: **not specified**

## **Correlated randomness in Fock space and origins of many-body localization**

*Wednesday, 26 February 2020 14:30 (30 minutes)*

**Presenter:** ROY , Sthitadhi (Oxford)

Contribution ID: 21

Type: **not specified**

# Hidden order in disordered Prussian Blue analogues crystals

*Wednesday, 26 February 2020 08:30 (45 minutes)*

**Presenter:** SIMONOV , Arkadiy (ETHZ)

Contribution ID: 22

Type: **not specified**

## Structural analogs of complex magnetic phases

*Wednesday, 26 February 2020 09:15 (15 minutes)*

**Presenter:** WOLPERT , Emma (Oxford)

Contribution ID: 23

Type: **not specified**

## **Oxiborates: Low dimensionality and magnetic frustration**

*Tuesday, 25 February 2020 18:00 (30 minutes)*

**Presenter:** CONTRERAS MEDRANO , Cynthia Paola ((Centro Brasileiro de Pesquisas Fisicas), )