

Session Program

29-30 Oct 2019

**PSI Condensed Matter Retreat 2019 @ FHNW
Brugg**

Poster session

FHNW Brugg

Tuesday 29 October

14:00

Poster session: even #'s

Session | Location: FHNW Brugg

14:00–14:30

Evidence of large polarons in photoemission band mapping of the perovskite semiconductor CsPbBr₃

Speaker

Nicola Colonna

14:00–14:30

Thin Film Deposition With The Sputtering Lab @ LIN

Speaker

Christine Klauser

14:00–14:30

Disentangling charge and spin excitations in RIXS spectra and their evolution in the phase diagram of Bi₂Sr₂CaCu₂O_{8+x} superconducting cuprate

Speaker

Wenliang Zhang

14:00–14:30

Operando observation of structural relaxation in ferroelectric GeTe(111)

Speaker

Matthias Kurt Muntwiler

14:00–14:30

CO₂ alcoholysis to organic carbonates over Zr-based catalysts: an in situ ATR-IR study

Speaker

Matteo Signorile

14:00–14:30

Bragg coherent diffractive imaging of one-dimensional topological strings in multiferroic barium hexaferrite nanocrystals

Speaker

Dmitry Karpov

14:00–14:30

Spin fluctuation induced Weyl semimetal state in the paramagnetic phase of EuCd₂As₂

Speaker

Dr J.-Z. Ma

14:00–14:30

Switching a cryo-memory cell in less than half a picosecond

Speaker

Dr Jan Ravník

14:00–14:30

Probing solid-liquid interfaces with tender X-rays

Speaker

Zbynek Novotny

14:30–15:00

Stroboscopic neutron diffraction applied to fast time-resolved operando studies on Li-ion battery**Speaker**

Dr Denis Sheptyakov

14:30–15:00

Momentum Signatures of Site Percolation in disordered 2D Ferromagnets in low and high defect density regimes**Speaker**

Zhi Jian Daniel Tay

14:30–15:00

Dzyaloshinskii-Moriya Interaction in Nanocrystalline Vitroperm**Speaker**

Yifan Quan

14:30–15:00

Neutron-based research on additive manufactured materials at the Paul Scherrer Institute**Speakers**

Efthymios Polatidis, Dr Jan Capek, Manuel Morgano, Pavel Trtik, Markus Strobl

14:30–15:00

Determination of Molybdenum Species Evolution during Non-Oxidative Dehydroaromatization of Methane and its Implications for Catalytic Performance**Speaker**

Miren Agote Aran

14:30–15:00

Observing dynamics in photoexcited states of photocatalysis/photoelectrodes studied by transient XAS in XFELs**Speaker**

Yohei Uemura

14:30–15:00

Analysis of Silicon Carbide ultra-thin (<2um) x-ray sensors for synchrotrons beam position monitors applications**Speakers**

Dr Maria del Mar Carulla, Dr Massimo Camarda

14:30–15:00

GdFeCo nanoparticles for all-optical magnetization switching**Speaker**

Dr Sergii Parchenko

14:30–15:00

Single spin-polarised Fermi surface in SrTiO₃ films**Speaker**

Eduardo Bonini Guedes

15:00–15:30

Topochemical synthesis of the 2M-WS₂

Speaker

Dr Dariusz Jakub Gawryluk

15:00–15:30

Spin reorientation in ferromagnetic type-II Weyl Fe₃Sn₂.**Speaker**

Neeraj Kumar

15:00–15:30

Time-of-arrival detection for time-resolved STXM imaging**Speaker**

Dr Simone Finizio

15:00–15:30

Addressing Electronic and Spin Transitions of Switchable Molecules in the Monolayer Range**Speaker**

Dr Niéili Daffé

15:00–15:30

Revisiting the magnetic structure of R_{1/3}Sr_{2/3}FeO₃ (R = La, Pr, Nd) by neutron powder and single crystal diffraction combined with spherical polarimetry**Speaker**

Dr Ekaterina Pomjakushina

15:00–15:30

Ultrafast dynamics of structural and orbital order in TiSe₂**Speaker**

Max Burian

15:00–15:30

High-resolution neutron imaging of hydrogen concentrations in nuclear fuel claddings**Speaker**

Dr Pavel Trtik

15:00–15:30

Influence of Selective Laser Melting strategies and post treatment on the residual stresses and microstructure of Alloy 718**Speaker**

Dr Jan Capek

15:00–15:30

Operando high energy XRD of Cu/La_{0.5}Sr_{0.5}CoO₃ TWC under oscillating feed**Speaker**

Ivo Alxneit

15:30

17:30

Poster session: odd #'s

Session | Location: FHNW Brugg

17:30–18:20

Towards the understanding of the dynamics and the Raman effect of strained germanium lasing**Speaker**

Mr Francesco Taro Armand Pilon

17:30-18:20

Investigation of metal-insulator transition in Slater insulator, NaOsO₃ using static and time-resolved resonant x-ray diffraction**Speaker**

Namrata Gurung

17:30-18:20

The sound of the Q-phase in CeCoIn₅ - an ultrasound investigation**Speaker**

D. T. Maimone

17:30-18:20

Structural phases of elemental Gallium: universal relations in conventional superconductors**Speaker**

Dr Rustem Khasanov

17:30-18:20

Time-resolved X-ray tomography of multiphase systems**Speaker**

Vladimir Novak

17:30-18:20

Synthesis of Al-Sc, Al-Zr, and Al-Sc-Zr alloys via SLM from elemental powder blends**Speaker**

Ms Jennifer Glerum

17:30-18:20

Quantum interference between multi-triplon continua and bound states in quasi-one-dimensional cuprate Sr₁₄Cu₂₄O₄₁**Speaker**

Mr Yi Tseng

17:30-18:20

Emerging molecular magnetic materials**Speaker**

Jan Gui-Hyon Dreiser

17:30-18:20

Probing the magnetic state of Ni in NdNiO₃/La_{0.7}Sr_{0.3}MnO₃ bilayer**Speaker**

Anna Zakharova

18:20-19:10

Finite-element mesh generation and simulation of magnetization dynamics in a three-dimensional artificial spin structure**Speaker**

Dr Sebastian Gliga

18:20-19:10

Synchrotron studies for optimization of Selective Laser Melting manufacturing of alumina parts**Speaker**

Malgorzata Grazyna Makowska

18:20–19:10

Stability of the Q -phase of CeCoIn₅ in the presents of localized magnetic impurities**Speaker**

Junying Shen

18:20–19:10

Thermoelectric transport properties in magnetically ordered materials**Speaker**

Dr Hans Grimmer

18:20–19:10

In situ mechanochemistry of hybrid materials**Speaker**

Manuel Wilke

18:20–19:10

Ultrafast dynamics of antiferromagnetic fluctuations in the spin-chain CuGeO₃**Speaker**

Dr Eugenio Paris

18:20–19:10

Floating zone growth and characterization of topological materials**Speaker**

Pascal Puphal

18:20–19:10

 δ -doped silicon devices for quantum electronics and optics**Speaker**

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18:20–19:10

Multiscale Materials Modelling**Speaker**

Monica Kosa

19:10–20:00

Spontaneous reduction of polydispersity and self-healing colloidal crystals**Speaker**

Urs Gasser

19:10–20:00

Magnetic and lattice dynamics in CsNiCrF₆**Speaker**

Mr Amirreza Hemmatzade

19:10–20:00

Triangular lattice antiferromagnet FeGa₂S₄**Speaker**

Oksana Zaharko

19:10–20:00

Dynamics of model systems with correlated disorder**Speaker**

Karim Essafi

19:10–20:00

Enhanced transformation-induced-plasticity in austenitic steel produced by selective laser melting

Speaker

Efthymios Polatidis

19:10–20:00

Disordered skyrmion phase stabilized by magnetic frustration in a chiral magnet $\text{Co}_7\text{Zn}_7\text{Mn}_6$ **Speaker**

Jonathan White

19:10–20:00

Pd nanoparticles solid-liquid interface study during liquid phase selective hydrogenation by combined XAS and ATR-IR**Speaker**

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19:10–20:00

Multiple Coulomb Phase in the Fluoride Pyrochlore CsNiCrF_6 **Speaker**

Dr Tom Fennell

19:10–20:00

Nodeless superconductivity and effect of hydrostatic pressure in the charge density wave superconductor SrPt_2As_2 **Speaker**

Dr Ritu Gupta

20:00