

# Daily Programme Monday 4<sup>th</sup> May 2015

FHNW Brugg-Windisch, Room 6.1H13

08:15 – 08:45	Matt Ch. & Shi M.	<b>Registration</b>
<b>08:50 – 10:20</b>	<b>Session 1</b>	<b>Chair Nolting Frithjof</b>
08:50 – 09:05	Mesot J. <i>PSI &amp; EPFL &amp; ETHZ</i>	Opening
09:05 – 09:30	Aeppli G. <i>PSI &amp; EPFL &amp; ETHZ</i>	Large research facilities at PSI and Photon Science
09:30 – 09:55	Xue Q-K. <i>Tsinghua U</i>	Molecular beam epitaxy-scanning tunneling microscopy of high Tc superconductivity
09:55 – 10:20	Patthey L. <i>PSI</i>	The New Femto Second X-ray Laser Source at PSI
10:20 – 10:50		<b>Coffee break</b>
<b>10:50 – 12:30</b>	<b>Session 2</b>	<b>Chair Fang Zhong</b>
10:50 – 11:15	Rice M. <i>ETHZ</i>	The Exotic Pseudogap Phase in the Cuprate Super-conductors
11:15 – 11:40	Wang Y. <i>Tsinghua U</i>	Electronic structure in parent and lightly doped cuprates studied by STM
11:40 – 12:05	Guguchia Z. <i>PSI &amp; Zurich U</i>	Hydrostatic pressure and oxygen isotope effects on the static spin-stripe order and superconductivity in $\text{La}_{2-x}\text{Ba}_x\text{CuO}_4$ ( $x = 1/8$ )
12:05 – 12:30	Miao H. <i>IOP</i>	Observation of strong electron pairing on band without Fermi surface
12:30 – 14:00		<b>Lunch</b>
<b>14:00 – 15:40</b>	<b>Session 3</b>	<b>Chair Abela Rafael</b>
14:00 – 14:25	Normand B. <i>Renmin U</i>	Finite-temperature dynamics of highly frustrated quantum spin ladders
14:25 – 14:50	Rueegg Ch. <i>PSI &amp; Geneva U</i>	Quantum Critical Points in Systems with Effective Singlet Ground-States
14:50 – 15:15	Fennell T. <i>PSI</i>	Emergent monopoles and photons in pyrochlore magnets
15:15 – 15:40	Sun L. & Zhao Z. <i>IOP</i>	Superconductivity emerging from suppressed large magnetoresistant state in $\text{WTe}_2$
15:40 – 16:10		<b>Coffee break</b>
<b>16:10 – 17:50</b>	<b>Session 4</b>	<b>Chair Xue Qi-Kun</b>
16:10 – 16:35	Zhou X. <i>IOP</i>	ARPES on $\text{FeSe/SrTiO}_3$ Films, Topological Insulators and Silicene
16:35 – 17:00	Biswas P. <i>PSI</i>	Superconducting and magnetic properties of single layer FeSe grown on STO revealed by Muon spin rotation spectroscopy
17:00 – 17:25	Dreiser J. <i>PSI &amp; EPFL</i>	Lanthanide Single-Ion Molecular Magnets: Getting Control of the Molecule-Metal Interface
17:25 – 17:50	Vaz C. <i>PSI</i>	Inducing interfacial couplings in multiferroic heterostructures
19:15 – ~ 22:00	Hotel Blume Baden, I	<b>Pre-dinner drinks followed by workshop dinner</b>

# Daily Programme Tuesday 5<sup>th</sup> May 2015

FHNW Brugg-Windisch, Room 6.1H13

<b>08:40 – 10:20</b>	<b>Session 5</b>	<b>Chair Aeppli Gabriel</b>
08:40 – 09:05	Zhoung F. <i>IOP</i>	Topological Semimetals
09:05 – 09:30	Ding H. <i>IOP</i>	Discovery of Weyl semimetal TaAs
09:30 – 9:55	Xu N. <i>PSI</i>	(S-)ARPES investigation on the electronic and spin structures of the first topological Kondo insulator: strongly correlated system SmB <sub>6</sub>
09:55 – 10:20	White J. <i>PSI</i>	Electric Field-Induced Skyrmion Distortion and Giant Lattice Rotation in the Magnetoelectric Insulator Cu <sub>2</sub> OSeO <sub>3</sub>
10:20 – 10:50		<b>Coffee break</b>
<b>10:50 – 12:30</b>	<b>Session 6</b>	<b>Chair Dai Pencheng</b>
10:50 – 11:15	Jin Ch. <i>IOP</i>	Effects of Pressures on the Superconductivity of Strong Spin Orbital Coupling System
11:15 – 11:40	Pomjakushina E. <i>PSI</i>	High oxygen pressure synthesis of transition metal complex oxides at LDM – new instrumentation, first results, future plans.
11:40 – 12:05	Pedrin B. <i>PSI</i>	Achievements in 2D protein crystallography at the LCLS
12:05 – 12:30	Milne Ch. <i>PSI</i>	Exploring ultrafast chemical and biological reaction dynamics using X-ray techniques
12:30 – 14:00		<b>Lunch</b>
<b>14:00 – 15:40</b>	<b>Session 7</b>	<b>Chair Kenzelmann Michael</b>
14:00 – 14:25	Wang N.-L. <i>Peking U</i>	Density waves and superconductivity in Na <sub>2</sub> Ti <sub>2</sub> Pn <sub>2</sub> O (Pn=Sb, As) and Ba <sub>2</sub> Ti <sub>2</sub> Fe <sub>2</sub> As <sub>4</sub> O: an optical spectroscopy study
14:25 – 14:50	Morin M. <i>PSI</i>	Spiral order and ferroelectricity up to 200K in multiferroic YBaCuFeO <sub>5</sub> : a neutron powder diffraction study
14:50 – 15:15	Gauthier N. <i>PSI</i>	Frustrated magnetism in the J <sub>1</sub> -J <sub>2</sub> zig-zag chains of SrDy <sub>2</sub> O <sub>4</sub> compound probed by neutron scattering
15:15 – 15:40	Beaud P. <i>PSI</i>	Resonant X-ray diffraction to study ultrafast phase changes in solid matter
15:40 – 16:10		<b>Coffee break</b>
<b>16:10 – 17:50</b>	<b>Session 8</b>	<b>Chair Wang Nan-Lin</b>
16:10 – 16:35	Schmitt Th. <i>PSI</i>	Probing the ground state oxygen holes and the metal-insulator transition in strained rare earth nickelate films with Resonant Inelastic X-ray Scattering
16:35 – 17:00	Sibille R. <i>PSI</i>	Spin Liquids in Novel Pyrochlore Materials Investigated using Large Facilities
17:00 – 17:25	Embs J.P. <i>PSI</i>	Cation Dynamics in Ionic Liquids as Seen by Quasielastic Neutron Scattering
17:25 – 17:50	Dai P. <i>IOP</i>	Electronic phase diagrams of Co, Ni, and P-doped BaFe <sub>2</sub> As <sub>2</sub> , and Cu-doped NaFeAs
17:50 – 18:00	Ding H. <i>IOP</i>	<b>Closing remarks</b>