

## MARVEL PP7 Day Tuesday, 4. April 2017 at PSI

**Participants:** PIs, Postdocs and PhDs of the PP7 projects (Experiment and theory partners). PIs of other Marvel projects (VP1, VP2, HP3, HP4, HP5, and PP6).

**Presentations:** Each project should present status, results and future plans. Try to define an objective for the next year (one for the theory part, one for the experiment part). An important point is that we show the synergies and feedback loops between theory and experiment. Therefore it is expected that the contributions of the theory part and of the experimental part are clearly presented.

Please register via this webpage [http://indico.psi.ch/event/MARVEL\\_PP7day\\_2017](http://indico.psi.ch/event/MARVEL_PP7day_2017)

Deadline for registration: 14.3.2017

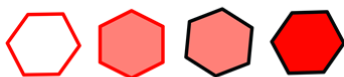
Contact: [frithjof.nolting@psi.ch](mailto:frithjof.nolting@psi.ch)

Tentative Agenda, v1.2.2017

All projects should give a presentation of 15min + 5 min for discussion. Below the draft agenda, assuming that the corresponding Postdocs will give the presentation. Please let me know/confirm who is giving the presentation asap.

Tuesday, 4. April				
	v.1.2.2017	Place: WHGA/001 (Auditorium, PSI West)		
time	presenter	title	duration	discussion
09:30		Welcome coffee		00:30
10:00	Frithjof Nolting/Michel Kenzelmann	Short introduction	00:10	00:00
10:10	Dariusz Gawryluk	RNiO <sub>3</sub> perovskites: exploring the boundary between localized and itinerant behavior	00:15	00:05
10:30	Michael Porer	Testing ultrafast processes in condensed matter	00:15	00:05
10:50	Daniel McNally	Resonant Inelastic X-Ray Scattering on thin films and oxide heterostructures for future Mottronics and Orbitronics	00:15	00:05
11:10	Fan Xiao	Single-band Hubbard Model in New Fluorides	00:15	00:05
11:30	Mengyu Yao	Experimental Realization of Novel Topological Semi-metals	00:15	00:05
11:50		Lunch	00:00	00:45
12:35	?	Higgs and Goldstone modes in hexagonal manganites	00:15	00:05
12:55	Marco Campanini	Microscopic Origin of the Magnetoelectric Properties in Strained and Doped Aurivillius Phases Predicted by DFT	00:15	00:05
13:15	Jianfeng Huang	Colloidal Nanocrystals as Model Systems to Uncover Structure/Properties Relations in CO <sub>2</sub> electroreduction	00:15	00:05
13:35	Wenping Si	Theory and Experiment Synergy for Artificial Photosynthesis	00:15	00:05

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NATIONAL CENTRE OF COMPETENCE IN RESEARCH

13:55	Daniel Abbott	Development of advanced electrocatalysts for water splitting: Correlation between electronic structure, surface properties and electrochemical activity	00:15	00:05
14:15	Evangelisti Fabio	Structural and in-situ electrochemical characterization of oxide phase transformation at oxide-liquid interface	00:15	00:05
14:35		Coffee break	00:15	00:05
14:55	Nicolo Azzarolida	Time-resolved X-ray absorption spectroscopy to investigate mechanisms of photochemical water splitting reactions with molecular catalysts	00:15	00:05
15:15	Elisa Gilardi	The search for new proton conductors: High-throughput screening and experimental synthesis and characterization	00:15	00:05
15:35	Gerald Bauer	Using computational chemistry to predict the performance of metal-organic frameworks catalysis in the hydroformylation of olefins	00:15	00:05
15:55	all PIs	Closing session of PIs (wrap up and open questions)	00:00	00:45
16:40		finish	00:15	00:05