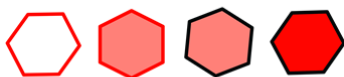


List of PP7 projects - First call, Status 13.1.16

Topics	Groupleader Experiment	Groupleader(s) Theory	Start	End
Structural and in-situ electrochemical characterization of oxide phase transformation at oxide-liquid interface	Claudia Cancellieri (EMPA)	A. Pasquarello (EPFL), D. Passerone (EMPA)	Jan 16	Dec 17
Theory and Experiment Synergy for Artificial Photosynthesis	Thomas Lippert (PSI)	N. Marzari (EPFL)	Jun 15	May 17
Higgs and Goldstone modes in hexagonal manganites	Dirk van der Marel (U Geneva)	N. Spaldin (ETHZ)	?	?
RNiO ₃ perovskites: exploring the boundary between localized and itinerant behavior	Maria Luisa Medarde Barragan (PSI)	A. Georges (Uni Geneva), N. Spaldin (ETHZ)	Aug 15	Jul 17
Development of advanced electrocatalysts for water splitting: Correlation between electronic structure, surface properties and electrochemical activity	Thomas Schmidt (PSI)	N. Marzari (EPFL)	Aug 15	Jul 17
Resonant Inelastic X-Ray Scattering on thin films and oxide heterostructures for future Mottronics and Orbitronics	Thorsten Schmitt (PSI)	N. Spaldin (ETHZ)	Jan 16	Dec 17
Time-resolved X-ray absorption spectroscopy to investigate mechanisms of photochemical water splitting reactions with molecular catalysts	Grigory Smolentsev (PSI)	J. Hutter (Uni Zurich)	?	?
Testing ultrafast processes in condensed matter	Urs Staub (PSI)	P. Werner (Uni Fribourg), N. Spaldin (ETHZ)	Sep 15	Aug 17



List of PP7 projects - Second call, Status 13.1.16

Topics	Groupleader Experiment	Groupleader(s) Theory	Start	End
Experimental Realization of Novel Topological Semi-metals	Ming Shi (PSI)	Oleg Yazyev (EPFL), M Troyer (ETHZ)	?	?
Microscopic Origin of the Magnetoelectric Properties in Strained and Doped Aurivillius Phases Predicted by DFT	Marta D. Rossell (EMPA)	Claude Ederer (ETHZ)	?	?
Using computational chemistry to predict the performance of metal-organic frameworks catalysis in the hydroformylation of olefins	Marco Ranocchiari (PSI)	Berend Smit (EPFL)	?	?
The search for new proton conductors: High-throughput screening and experimental synthesis and characterization	Daniele Pergolesi (PSI)	Nicola Marzari (EPFL)	?	?
Single-band Hubbard Model in New Fluorides	Christian Rüegg (PSI/Uni Geneva)	Nicola Spaldin (ETHZ), T. Schulthess (ETHZ), M. Troyer (ETHZ)	?	?