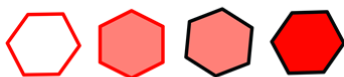


List of PP7 projects - First call, Status 31.1.17

Topics	Postdoc	Groupleader Experiment	Groupleader(s) Theory	Start/ End
Structural and in-situ electrochemical characterization of oxide phase transformation at oxide-liquid interface	Evangelisti Fabio	Claudia Cancellieri (EMPA)	A. Pasquarello (EPFL), D. Passerone (EMPA)	Jan 16/ Dec 17
Theory and Experiment Synergy for Artificial Photosynthesis	Wenping Si	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	Dariusz Gawryluk	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	Daniel Abbott	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	Daniel McNally	Thorsten Schmitt (PSI)	N. Spaldin (ETHZ)	Jan 16/ Dec17
Time-resolved X-ray absorption spectroscopy to investigate mechanisms of photochemical water splitting reactions with molecular catalysts	Nicolo Azzarolida	Grigory Smolentsev (PSI)	J. Hutter (Uni Zurich)	Apr16/ Mar18
Testing ultrafast processes in condensed matter	Michael Porer	Urs Staub (PSI)	P. Werner (Uni Fribourg), N. Spaldin (ETHZ)	Sep 15/Aug 17



List of PP7 projects - Second call, Status 31.1.17

Topics	Postdoc	Groupleader Experiment	Groupleader(s) Theory	Start/ End
Experimental Realization of Novel Topological Semi-metals	Mengyu Yao	Ming Shi (PSI)	Oleg Yazyev (EPFL), M Troyer (ETHZ)	Sep16/ Aug18
Microscopic Origin of the Magnetoelectric Properties in Strained and Doped Aurivillius Phases Predicted by DFT	Marco Campanini	Marta D. Rossell (EMPA)	Claude Ederer (ETHZ)	Jun16/ May18
Using computational chemistry to predict the performance of metal-organic frameworks catalysis in the hydroformylation of olefins	Gerald Bauer	Marco Ranocchiari (PSI)	Berend Smit (EPFL)	Jul16/ Jun18
The search for new proton conductors: High-throughput screening and experimental synthesis and characterization	Elisa Gilardi	Daniele Pergolesi (PSI)	Nicola Marzari (EPFL)	May16/ Apr18
Single-band Hubbard Model in New Fluorides	Fan Xiao	Christian Rüegg (PSI/Uni Geneva)	Nicola Spaldin (ETHZ), T. Schulthess (ETHZ), M. Troyer (ETHZ)	May16/ Apr18
Colloidal Nanocrystals as Model Systems to Uncover Structure/Properties Relations in CO ₂ electroreduction	Jianfeng Huang	Raffaella Buonsanti (EPFL)	Nicola Marzari (EPFL)	May16/ Apr18