The 20 new PhD-projects for SwedNess II

Main applicant	Project title	University
Adrian Rennie	Study of fluorinated chemicals to reveal physicochemical properties of environmental relevance	Uppsala University
Anna Svagan	Towards Improved Molecular Understanding of Artificial Plant Cells	KTH Royal Institute of Technology
Cecilia Persson	Additive manufacturing of magnesium-based alloys for biomedical applications - microstructural evolution mechanisms and resulting mechanical properties	Uppsala University
Cedric Dicko	Multimodal tools to resolve assembly mechanisms in biological processes: Silks as a model	Lund University
Elisabeth Blackburn	Controlled magnetization reversal in magnetoelectric hexaferrites	Lund University
Germán Salazar-Alvarez	Magnetically tunable assembly of nanoparticles into ordered arrays	Uppsala University
Hanna Isaksson	Neutron scattering of soft tissues to unravel musculoskeletal structure and fluid distribution during loading in health and disease	Lund University
Jens Birch	Isotope Optimized Single Crystal Superlattice Neutron Supermirrors	Linköping University
Johannes Messinger	Revealing the Mechanisms of 'Energy-Enzymes' by Neutron Scattering and Diffraction Experiments	Uppsala University
Jonas Weissenrieder	Quantum Magnetism [& Energy Storage] in Layered Honeycomb Oxides	KTH Royal Institute of Technology

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Kenneth Järrendahl	Full Magnetic Characterization of Low-dimensional Materials by Transfer Matrix Neutron Polarimetry	Linköping University
Lennart Bergström	Neutron scattering studies of assembly, swelling and phonon transport of nanocellulose-based materials	Stockholm University
Maths Karlsson	Neutron scattering studies of organic cation dynamics and its relationship to luminescence in layered metal halide perovskites	Chalmers University of Technology
Paul Erhart	Framework for modeling neutron spectra of liquid chromophores	Chalmers University of Technology
Per Larsson	Influence of intestinal colloidal structures and self-assembly on lipid-based formulations for enhancing peptide drug bioavailability	Uppsala University
Peter Hedström	Nucleation in solid-state phase changes revealed by Neutron and x-ray scattering to fuel New computational framework (NNN)	KTH Royal Institute of Technology
Peter Lazor	Elucidating magnetic order/disorder phenomena in quasicrystals and approximant crystals	Uppsala University
Sheng Guo	Lattice distortions and short-range order in refractory high entropy alloys	Chalmers University of Technology
William Brandt	Unravelling the Contrary Nature of Water in Prussian Blue Analogue Battery Materials	Uppsala University
Yasmine Sassa	Pressure Effects in Bulk & Thin Film Skyrmion Systems	Chalmers University of Technology