

# Program

Workshop on spin-lattice computations, August 27-28 2015, Villa Brevik,  
Lidingö

## **Thursday 27/8**

11.30 Lunch

Chair: Gunilla Kreiss

12.30-13.00 *Welcome*

Anna Delin, KTH

13.00-13.30 *How to make the lattice and spins to be dynamical together*

Jonas Fransson, Uppsala University

13:30-14:00 *Scale transitions in magnetisation dynamics*

Mikhail Poluektov, Uppsala University

14:00-14:30 *A method to simulate combined atomistic spin and lattice dynamics*

Lars Nordström, Uppsala University

14:30-15.00 *Effective interatomic force constants*

Olle Hellman, Caltech

15.00-15.30 Coffee and check-in

Chair: Jonas Fransson

15.30-16.00 *Why I would like to be able to do spin-lattice computations*

Nicola Spaldin, ETH Zürich

16.00-16.30 *Recent progress in simulations of the paramagnetic state of magnetic materials*

Igor Abrikosov, Linköping University

16.30-17.00 *Modelling of spin-lattice dynamics in multiferroic materials*

Johan Hellsvik, KTH

17:00 Free time / Swimming

18.00 Dinner

## **Friday 28/8**

From 07.00 Breakfast and check-out

Chair: Nicola Spaldin

09.00-09.30 *Topological excitations in a kagome magnet*

Manuel Pereiro, Uppsala University

09.30-10.00 *Topological Magnon States*

Alexander Mook, MPI Halle

10.00-10.30 Coffee and last chance to check out

Chair: Igor Abrikosov

10.30-11.00 *Phonon and magnon dependent parameters in atomistic spin dynamics simulations*

Lars Bergqvist, KTH

11.00-11.30 *Constraining fields for ab-initio spin dynamics*

Anders Bergman, Uppsala University

11.30-12.30 *Panel discussion on implementation*

Johan Hellsvik leads the panel discussion

12.30 Lunch