

Magnetism, correlated systems and X-rays

- meeting and workshop for the Swedish research community

Thursday 14th of March

- 09.00 – 09.15 Welcome, opening & scope
09.15 – 09.45 Hermann Dürr, *Uppsala University*
09.45 – 10.15 Joachim Gräfe, *Max Planck Inst., Stuttgart*
10.15 – 10.45 Sujoy Roy, *Coherent BL, ALS-Berkeley*

----10:45 Coffee break ----

- 11.15 – 11.35 *BL SoftiMAX* – Jörg Schwenke
11.35 – 11.55 *BL Veritas* – Shih-Wen Huang
11.55 – 13.00 Discussion session

13.00 – 14.00 *Lunch at Elite Hotel Ideon*

- 14.00 – 14.30 Salvador Ferrer, *Scientific advisor ALBA*
14.30 – 15.00 Manuel Valvidares, *Boreas BL, ALBA*
15.00 – 15.30 Theory – Olle Eriksson, *Uppsala University*

----- 15:30 Coffee break ----

- 15.50 – 16.10 *BL MAXPEEM* – Alex Zakharov
16.10 – 16.30 *XPCS technique* - Kim Nygård
16.30 – 17.30 Discussion session

----- 18:30 Dinner ----

Friday 15th of March

- 09.00 – 09.30 Elizabeth Blackburn, *Lund University*
09.30 – 09.50 *BL Bloch* – Craig Polley
09.50 – 10.20 Dan Mannix, *ESS & Århus University*

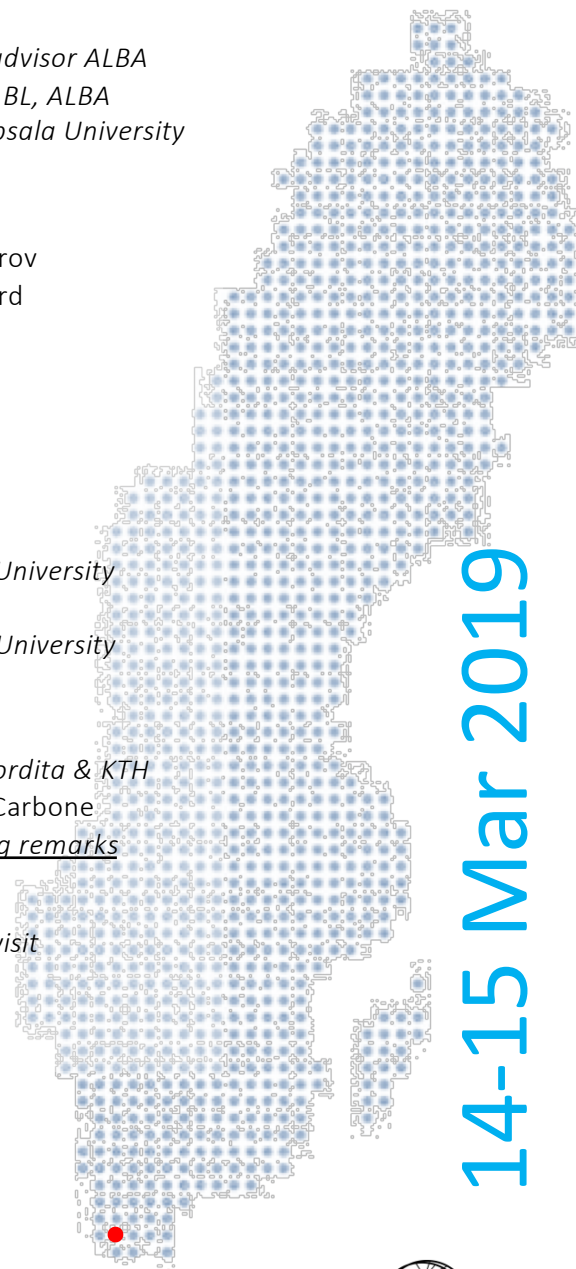
---- 10:20 Coffee break ----

- 10.50 – 11.20 Theory – Johan Hellsvik, *Nordita & KTH*
11.20 – 11.40 *BL NanoMAX* – Gerardina Carbone
11.40 – 12.45 Discussion session & closing remarks

12:45 – *Take away lunch,*
Possibility for MAX IV/ESS visit

Location:

LINXS rooms
IDEON Building Delta 5
Scheelevägen 19
22370 Lund



14-15 Mar 2019



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Magnetism, correlated systems and X-rays

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We would like to invite you to a workshop on Magnetism, Correlated Systems and X-rays (14th-15th March, Lund). The idea behind the workshop is to consider how this community can best use MAX IV (& ESS to a lesser extent, as it will be the main focus in a later workshop) to study strongly correlated behaviours.

Since MAX IV is a bright, highly coherent source and resonant x-ray techniques have shown a lot of potential in this field, the focus of the meeting will be how to use these parameters (coherence, intensity/time-dependence and resonance) for the study of strongly correlated behaviours including but not exclusive to superconductivity, multiferroicity, heavy fermion systems, spin-orbit coupling, topological phases. A number of beamlines will present their plans and capabilities for the user community. These beamlines cover both soft and hard x-ray energies and represent imaging, small angle scattering, diffraction and spectroscopy techniques. Theoretical and experimental experts in the field will share their knowledge and insights to kick-start the formation of new ideas around the use of MAX IV for these solid state phenomena.

An important aspect of the program will be time for discussion. We would like to have an open forum for the brainstorming of possible novel experiments; explore the use and combination of new techniques; or debate hardware such as specific sample environments. The overall aim of these discussions is to find common ground for scientific collaborations, define projects, and maybe even take concrete steps towards beamtime applications or the building of experimental equipment.

In order for this to be as productive as possible, we would like to ask you to bring 1-3 slides of your own research interests or questions, which can be used during the discussions to illustrate your research and help to identify where/which x-ray techniques at MAX IV can contribute.

Organising committee:

- Karina Thånell, MAX IV Laboratory
- Elizabeth Blackburn, Lund University
- Herman Dürr, Uppsala University
- Gerardina Carbone, MAX IV Laboratory
- Shih-Wen Huang, MAX IV Laboratory
- Jörg Schwenke, MAX IV Laboratory
- Pascale Deen, ESS/Copenhagen University

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