

Staff members (2024)

- **Program professor (PAP):** Olle Eriksson
- **Faculty members:** Rajeev Ahuja, Mattias Klintonberg, Peter Oppeneer, Anders Bergman, Oscar Grånäs, Jan Ruzs, Biplab Sanyal, Patrik Thunström
- **Ph.D. students:** 10 (4) (present: Soheil Ershadrad)
- **Postdocs:** 18 (3) (present: Nivedita Pandey)
- **Researchers:** 12 (5) (present: Heike Herper, Wei Luo, Alena Vishina, Ralph Scheicher)
- **Affiliated members:** Moyses Araujo, Igor Di Marco, Debjani Karmakar, Maryna Pankratova, Sergei Simak, Levente Vitos



Research focus

Main Research Areas		% of program	FTE Faculty	Type
1	Atomistic spin dynamics and lattice dynamics	33%	3	Basic
2	Electronic structure of strongly correlated materials	33%	3	Basic
3	Microscopy and Spectroscopy theory and simulations	17%	1.6	Basic
4	High-throughput electronic structure calculations	17%	1.4	Basic



Key enablers for research

- **Basic science of relevance for sustainable technologies**
- **External grants:** 9 VR, 2 KAW projects, 2 KAW scholar, WISE, 5 Energy Agency, ERC AdG. & SyG., EU-NSF, 2 Horizon Europe, Marie Curie (PhD), 10 NAISS, 5 EuroHPC

Challenge: Co-funding

- **International collaborations:** > 50 ongoing
- **High profile journals:** e.g. last 12 months: ACS Nano, Adv. Mater., MRL, Nano Energy, Nano Letters, Nature, Nature Mat., Nature Comm., Science Advances, PRL, Rev. Mod. Phys.
- **Research relevant for large scale Swedish infrastructures:** MAX IV, ESS, ARTEMIS



Program priorities

Prio 1 (program): *Securing excellence in light of retirements*

The goal is to ensure that momentum is not lost in the program's activity, when two of the senior professors retire. Recruiting person(s) that can carry on, lead and renew the activities within the program in the years to come is high priority.

Prio 2 (department): *More uniform research salary support for faculty members*

Strengthen existing research by providing more stable support for research for all faculty members in dept.

Prio 3 (faculty): *Securing excellence in light of retirements*

Same as priority 1

