

Information Meeting

Department of Physics and Astronomy

11 April 2024



Cake news

- Five KAW Scholars have been appointed for the period 2024–2029
 - **Susanne Höfner** will as a Wallenberg Scholar construct computer models over atmospheres and winds of cool giant stars and super giants to explore processes contributing to dust formation and wind acceleration. Something that would contribute to the understanding of how stars spread materials which may give rise to planets and life.
 - **Annica Black-Schaffer** will in her research build a theoretical framework to create, improve and understand electronic order, especially superconductivity, in open systems through non-Hermitian effects.
 - **Peter Oppeneer's** goal is to build a theoretical framework for fast non-equilibrium quantum dynamics based on materials specific calculations and then apply the framework to important, unsolved problems within non-equilibrium dynamics of condensed materials.



Cake news



- **Olle Eriksson** was appointed Wallenberg Scholar for the first time in 2019 with the project The quest for magnetic materials of the future. As Wallenberg Scholar, Olle Eriksson has built a world-leading environment in materials theory at the Ångström laboratory in Uppsala. With the help of mathematical models and computer simulations he studies, among other things, magnetic materials in order to theoretically predict functionality and improved applications. The hope is to identify new, cheaper and more environmentally friendly magnetic materials, but also to constantly refine theoretical methods that describe the materials.
- **Karin Schönning** will in her project Materiens sällsamma inre – på upptäcksfärd i femtometerkosmos continue to study some the smallest components of matter to come closer to a solution to one of the greatest mysteries within nuclear physics – the strong force of nature and why the universe is filled with more matter than antimatter. By measuring the spin properties, Karin Schönning and her colleges have managed to produce a “snapshot” of how a certain type of hyperon-antihyperon pair is formed – a milestone in the research. The image is not a real photography but corresponds to a set of parameters at a given time.

Cake will be served later (time to be announced)



More cake news



Uppsala university/FREIA has signed a contract with SKC CEN (the Belgian Nuclear Research Centre) for test of superconducting cavities for the MINERVA accelerator.

The accelerator is the first part of the MYRRHA facility with aim to perform:

- Transmutation of nuclear waste reducing the life time of the long lived isotopes by a factor 100 (from 300 000y to 300y)
- Production of theranostic radio-isotopes
- Development of new reactors by providing fast neutrons for tests
- Fundamental research on accelerators, magnets but also research in various scientific disciplines.

There will be a special event for celebrating this



Result and announcement! Medal for outreach and cooperation

- We have a result from the medal name competition

The winning name is: Cooperation and Outreach Activity Prize -

COAct



Result and announcement! Medal for outreach and cooperation

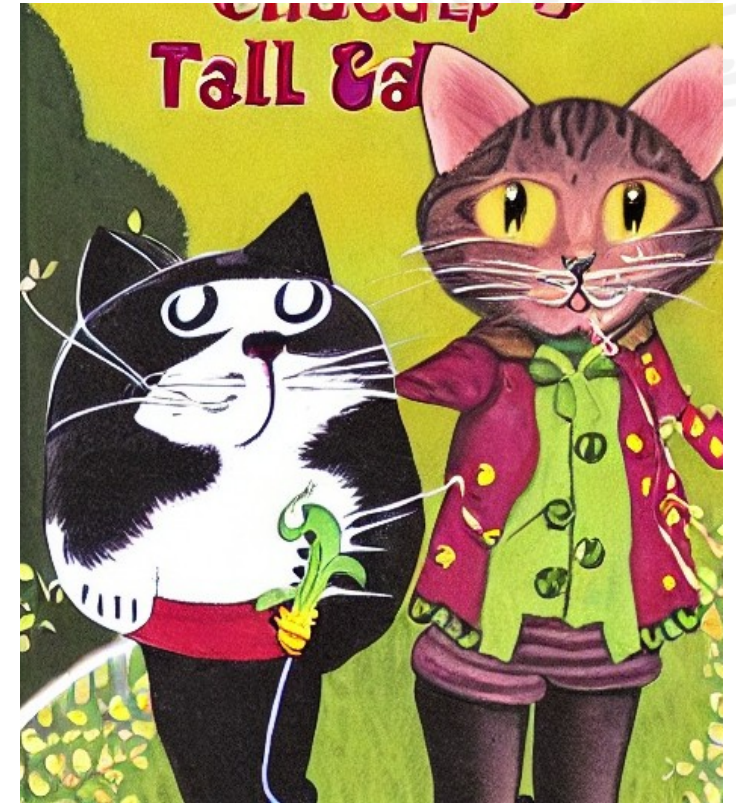
- We have a result from the medal name competition

The name competition winners are:

- Emma Almgren (*The CoAct physics prize- "CoAct" står för en gemensam handling eller samverkan, kombinerat med physics*).
- Vassilios Kapaklis (*COACT Prize - Collaboration and Outreach ACTivities Prize.*)

- Announcement of the COAct prize

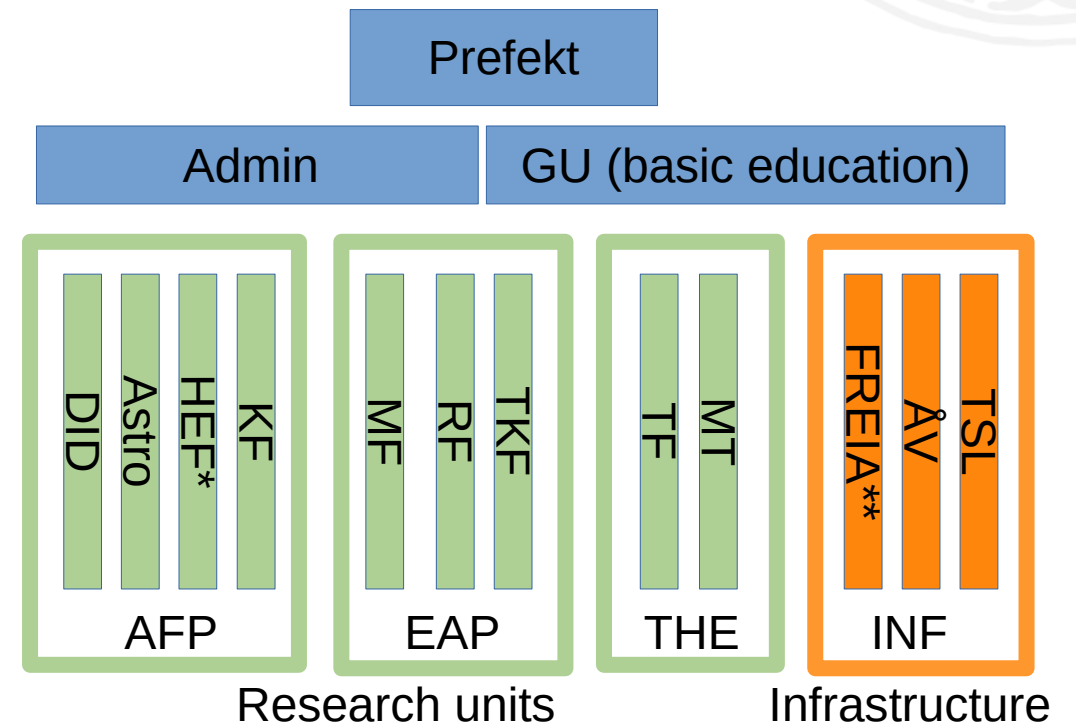
Formal announcement with instructions will be sent by mail soon. The deadline for nominations will be September 1st and the winner will be announced September 27th. Everyone person active at IFA are invited to nominate a person/persons. Only persons active at IFA can be nominated. The winner will receive a medal.



Status of units

The department runs with the unit structure.

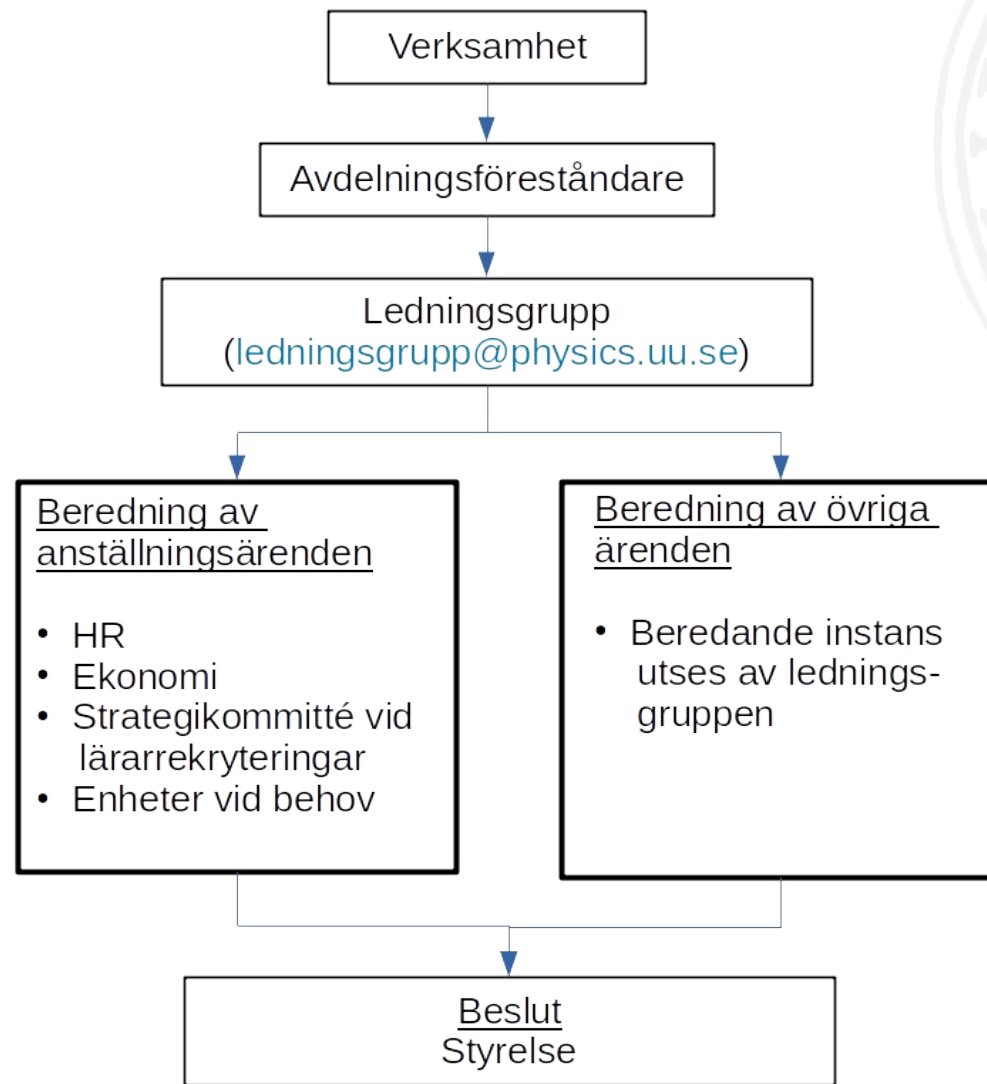
- Management group (meets weekly)
 - ✓ Richard Brenner- Head of Department
 - ✓ Andreas Lindblad – Dept. HoD, GU
 - ✓ Carolina Wallström-Pan – Admin. Manager
 - ✓ Unit leaders (meets with PAP and division heads bi-weekly)
 - Urban Eriksson – Astronomy and fundamental physics
 - (Håkan Rennsmo) – Experimental and applied physics
 - Lars Nordström – Theory
 - Johan Chau Söderström – Infrastructure
 - ✓ Maxim Zabzine – Dean
 - ✓ Annica Black-Schaffer – Research
 - ✓ Gabriella Anderrson – Postgrad education



* Accelerator research of HEP program in FREIA division

** Acc & instr program is in EAP unit

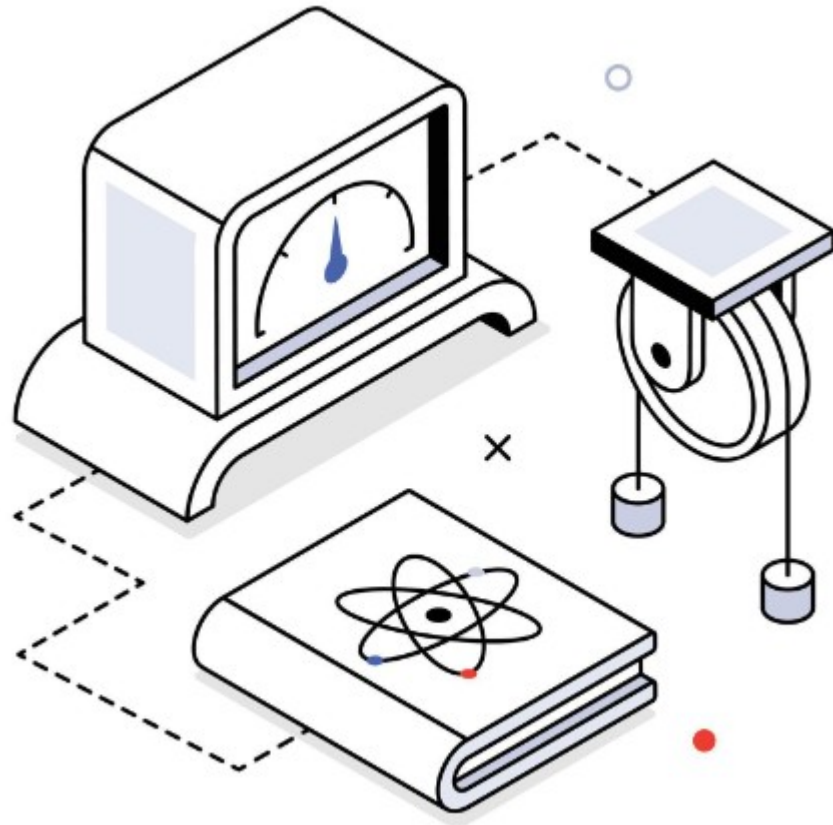
Decision making at IFA



Länkar:

- [Ärenden under beredning](#)
- [Styrelsebeslut](#)

Material physics + Ion physics = True



Organizational change:

The Ion physics group is moving from Applied Nuclear Physics division to Material Physics Division.

Division head for Material Physics is Gabriella Andersson.

Nominate program professor for Material Physics is Daniel Primezhofer.

There are many practical details still to be solved. I want to thank the divisions and programs involved in this transition for the constructive and positive spirit throughout the process!

