

Department of Physics and Astronomy

- *Richard Brenner* -

7 May 2024



Department in short:



- Head of Department – Richard Brenner (*Professor in High Energy Physics*)
- Dept. Head of Department – Andreas Lindblad (*Senior Lecturer/Associate Professor in X-ray Photon Science*)
- Personnel (~370)
 - Number of faculty – 98
 - Number of researchers – 71
 - Number of postdocs - 31
 - Number of PhD students – 93
- Economy
 - Annual budget research: 345 MSEK (57% external funding)
 - Annual budget Education 71 MSEK (7% contract education)

Research:

- The department has 14 research programs:
 - Condensed Matter Physics of Energy Materials
 - Physics Education Research
 - High Energy Physics
 - Instrumentation and Accelerators
 - Chemical and Biomolecular Physics
 - Quantum Matter Theory
 - Nuclear Physics
 - Materials Physics
 - Materials Theory
 - Observational Astrophysics
 - Space and Plasma Physics (*In connection with Swedish Institute for Space Physics*)
 - Theoretical Astrophysics
 - Theoretical Physics
 - Applied Nuclear Physics

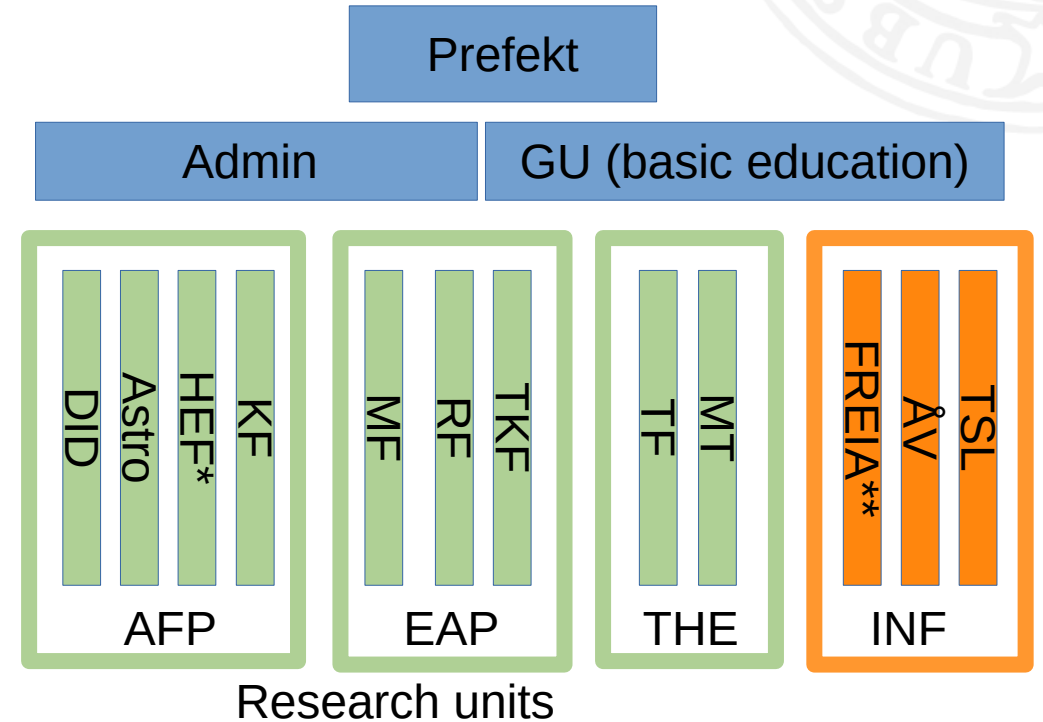


Organisation :



- The department is organized into 10 research and 3 infrastructure divisions. Some research divisions contain more than one research program. The divisions/programs are grouped into 4 units:

- **A**stronomy and **F**undamental **P**hysics
- **E**xperimental and **A**ppplied **P**hysics
- **T**HEory
- **I**NFrastructure



* Accelerator research of HEF program in FREIA division

** Acc & instr program is in EAP unit

Research infrastructure:

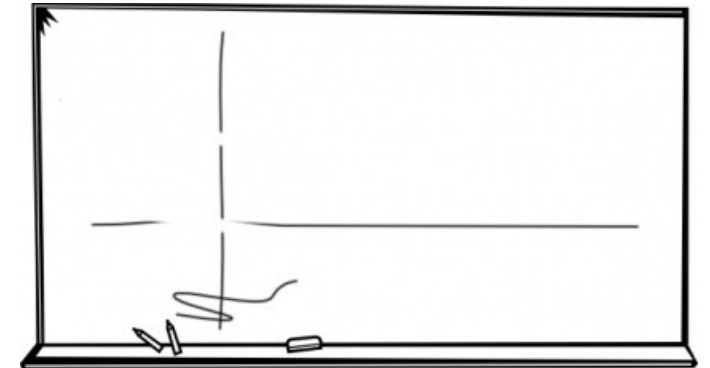


- The department has strong connection to large international infrastructure and runs several local medium-size infrastructures
 - **FREIA** - conducts research on beam physics and light generation with charged particles, accelerator technology and instrumentation
 - **Ångström Workshop** – Biggest university based machine workshop in northern Europe
 - **Tandemlab** – Ion Beam facility organized directly under faculty
 - **The Swedberg Laboratory** – is in process of closure
- The divisions run laboratories with equipment that are accessible to users



Education:

- Science and Technology Foundation Year Programme
- Bachelor program in Physics – 3 years
- Master of Science Programme in Physics – 2 years
 - Astronomy and Space Physics
 - Energy Physics
 - Materials Physics
 - Materials Theory
 - Nuclear and Particle Physics
 - Theoretical Physics: Quantum, Field and Strings
- Master of Science Programme in Engineering Physics
 - Applied physics
- Master of Science Programme in Engineering Physics with material sciences
- Master of Science Programme in Energy Systems



Department-wide strategy work:

