



FUTURE
CIRCULAR
COLLIDER

1st FCC Nordic day

Intro and welcome

Rebeca Gonzalez Suarez - Uppsala University

Why a FCC Nordic meeting?

- The global interest on the FCC is increasing following the latest Update of the European Strategy for Particle Physics, it is a good time to join and participate in the upcoming milestones.
- This initiative is geared toward the **high energy physics communities of the Nordic countries**, with the intention of **introducing the FCC project widely**, and to promote collaboration across countries, research groups, and fields.
- We will get an overview of the status of the project, plans, and the different possibilities it offers
 - physics potential, accelerator, detectors
- In the second part of the meeting, we will shift the focus to **activities already underway** in the Nordic countries, as well as plans, and possible ideas.
 - Discussing the **strategic alignment** of our physics and technical interests, building on our current expertise and future goals.
 - With the ultimate goal of **fostering synergies** for collaboration, potentially investigating options for Nordic-funding.

First step:

Opening communication lines

- We have created 4 national informal mailing lists, you can subscribe to your corresponding one via the links below:
 - Denmark 🇩🇰
 - Finland 🇫🇮
 - Norway 🇳🇴
 - Sweden 🇸🇪
- There is also an umbrella list (**Nordic**) that only has the previous 4 lists as members, to avoid spam, since it delivers to the four lists, this list is closed, and sending to this list is restricted
 - Reserved to important announcements that concern the four countries (like the next FCC Nordic day announcements!)

Agenda

14:00 → 14:05 **Welcome and information**
Speaker: Rebeca Gonzalez Suarez (Uppsala University)

14:05 → 14:50 **Future Circular Collider (FCC) Study - Status**
Speaker: Michael Benedikt (CERN)

15:00 → 15:45 **Physics Opportunities at the FCC**
Speaker: Patrizia Azzi (INFN)

15:50 → 16:00

16:00 → 16:45 **Detector opportunities at the FCC**
Speaker: Mogens Dam (Københavns Universitet Niels Bohr Institute)

Thanks for joining us today!

16:45 → 18:00 **Nordic activities/plans at the FCC**
Invited talks on current ongoing efforts, ideas, plans, from Nordic institutes regarding the FCC-ee,-hh, -eh.

16:45 **Long-Lived particles at the FCC-ee**
Speaker: Rebeca Gonzalez Suarez (Uppsala University)

16:55 **Work on the SMEFT and its precision future**
Speaker: Tyler Corbett (Niels Bohr Institute)

17:05 **A LAr Calorimeter for FCC-ee**
Speaker: Katinka Wandall (Niels Bohr Institute)

17:15 **Analysis of ee- \rightarrow ttbar and first jet studies**
Speaker: Julie Torndal (Niels Bohr Institute)

17:25 **Tile calorimeter readout with Multi-pixel Photon Counters (MPPC)**
Speaker: Gerald Eigen (U Bergen)

17:40 **Avoiding loss of beams in FCC using Superconducting Magnet Energy Storage**
Speaker: Joakim Kvarnström (Uppsala University)

17:50 **Potential for development of FCC superconducting magnets and accelerating cavities at FREIA Laboratory**
Speaker: Tord Ekelöf (Uppsala University)