## **1st FCC Nordic day** Intro and welcome

**Rebeca Gonzalez Suarez - Uppsala University** 



# Why a FCC Nordic meeting?

- Particle Physics, it is a good time to join and participate in the upcoming milestones.
- 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
- countries, as well as plans, and possible ideas.
  - expertise and future goals.
  - Nordic-funding.

• The global interest on the FCC is increasing following the latest Update of the European Strategy for

• 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,

• In the second part of the meeting, we will shift the focus to activities already underway in the Nordic

• Discussing the strategic alignment of our physics and technical interests, building on our current

• With the ultimate goal of fostering synergies for collaboration, potentially investigating options for

### First step: **Opening communication lines**

- one via the links below:
  - Denmark 🎏
  - Finland
  - Norway 🔚
  - <u>Sweden</u>
- - Nordic day announcements!)

• We have created 4 national informal mailing lists, you can subscribe to your corresponding

• 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

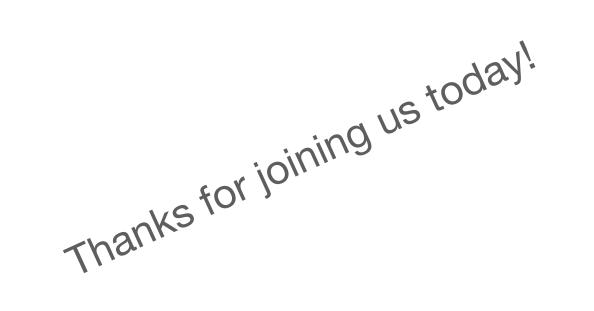
• Reserved to important announcements that concern the four countries (like the next FCC)



## Agenda

<b>14:00</b> → 14:05	Welcome and information 16   Speaker: Rebeca Gonzalez Suarez (Uppsala University)	<b>45</b> → 18
<b>14:05</b> → 14:50	Future Circular Collider (FCC) Study - Status Speaker: Michael Benedikt (CERN)	
<b>15:00</b> → 15:45	Physics Opportunities at the FCC Speaker: Patrizia Azzi (INFN)	
<b>15:50</b> → 16:00		
<b>16:00</b> → 16:45	Detector opportunities at the FCC	

Speaker: Mogens Dam (Københavns Universitet Niels Bohr Institute)



#### 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->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 cavi Laboratory Speaker: Tord Ekelöf (Uppsala University)

