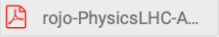


# Monday June 5th: ATLAS and the LHC

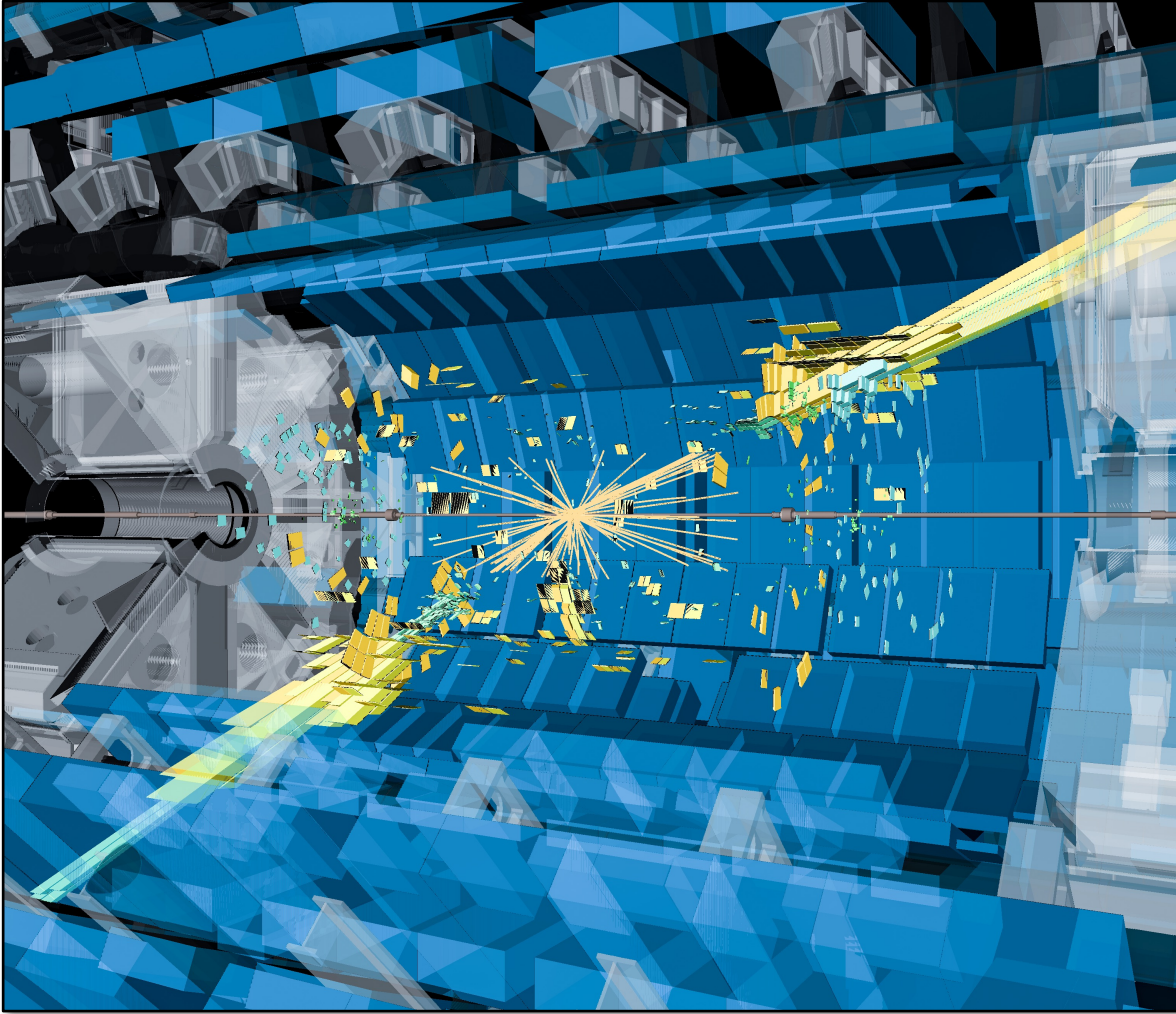
<b>10:00</b>	→ 10:05	<b>Intro</b>	🕒 5m	📎
<b>10:05</b>	→ 10:55	<b>Theory introduction</b> ⓘ Speaker: Juan Rojo 	🕒 50m	📎
<b>10:55</b>	→ 11:00	<b>coffee-discussion: coffee &amp; discussion</b>		📎
<b>11:00</b>	→ 11:50	<b>Top quark physics</b> Speaker: Clara Nellist	🕒 50m	📎
<b>11:50</b>	→ 12:00	<b>coffee and discussion</b>		📎
<b>12:00</b>	→ 12:50	<b>Electroweak symmetry breaking</b> Speaker: Robin Hayes	🕒 50m	📎
<b>12:50</b>	→ 14:00	<b>lunch: Lunch</b>		📎
<b>14:00</b>	→ 14:50	<b>The LHC machine and future colliders</b> Speaker: Ewen Maclean (CERN)	🕒 50m	📎
<b>14:50</b>	→ 15:00	<b>coffee and discussion</b>		📎
<b>15:00</b>	→ 17:00	<b>Links between ATLAS &amp; APP/future colliders (group-work)</b>	🕒 2h	📎

} *Theory*

} *Experimental talks*

} *LHC machine*

} *Working groups*



# The ATLAS experiment

## 1. Energy frontier

→ new particles and new phenomena

## 2. High statistics

→ rare processes & precision physics

Connection at Nikhef between people (and physics) from LHC and astro-particle (GW/DM/KM3Net)



# Monday session

1. Electroweak symmetry breaking in the early universe  
Lepto-/Baryogenesis – experimental info from LHC/FCC & LISA  
Explore complementarity and reach
2. Dark Matter – contribution/complementarity/reach between  
LHC/FCC & direct detection experiments
3. a) Future of accelerator physics: *Muon collider* / CLIC / *FCC ee* /  
FCC hh / e-Ion collide. b) *GW signals detection in FCC?*

# Discussion sessions in the afternoons

GROUP 1	GROUP 2	GROUP 3
Arneman, Dylan van	Cherepanova, Elizaveta	Leinonen, Walter
Barel, Marten	Feng, Zhuoran	Sidley, Alexandra
Bwembya, Anthony	Karkout, Osama	Wollfs, Zef
Flierman, Marieke	Fuselli, Carlo	Nuland-Troost, Marjolein van
Hofman, Bas	Ismaiel, Mohamed	Saharan, Mohit
Baka, Tomek	Selina, Mariia	Weerman, Kelly
Diksha, Diksha	Kranzhoff, Luise	Spijkers, Rik
Dongen, Jesse van	Lopez, Melissa	Saffarieh, Pooya
Iandolo Guido	Porcelli, Enrico	Schmidt, Stefano
Galati, Maria Domenica	Ranst, Zeb van	Spagnuolo, Viola
Eeden, Thijs Juan van	Nicotra, Davide	Tapia, Enzo
Bischoff, Tjip		Russo, Roberto