

Session 1: Physics cases for a next collider

- 10:55 - 11:00 Me talking right now
- 11:00 - 11:30 Pitches
 - Juan Rojo (zoom): Standard Model Effective Field Theory (and PDFs)
 - Susanne Westhoff (zoom): Dark sectors - zoom
 - Marco van Leeuwen: (high density) QCD
 - Ann-Kathrin Perrevoort: flavor physics
 - Frank Filthaut: Higgs physics
 - Robin Hayes: BSM searches
 - Andreas Freise: connections gravitational waves and future colliders
- 11:30 - 11:50 Discussion summarizing physics cases.
- 11:50 - 12:15 Discussion prioritizing physics cases.

Session 1: Discussion summarizing physics cases.

The groups will choose 2 or 3 questions they find interesting:

- Did you learn anything new from these pitches? What was it?
- To what extent do the cases made in these pitches focus on improving precision measurements vs. enabling discovery of new particles or interactions?
- Are there any cases where precision measurements could significantly impact our understanding of fundamental physics?
- To what extent do these physics cases present potential for discovering unexpected or completely new phenomena?
- Can we identify synergies between the various sub-topics?
- What strategies can we employ to maximize the complementarity or overlap between the topics presented?

Session 1: Discussion prioritizing physics cases.

- Each group makes a list: what is a must have vs. nice to have for a future collider?
- Perspectives may differ, so be kind and listen to each other.

Logistics:

- Groups of 5-6 people from different backgrounds
- Each group will have a facilitator and a scribe. Notes will be taken electronically and sent to: Panos.Christakoglou@nikhef.nl
- We will sound a horn when it is time to switch to prioritizing physics cases.

Session 1: Groups and rooms

Group 1 (Vertex)			Group 6 (Vertex)			Group 11 (Positron)		
Panos Christakoglou	ALICE		Lydia Brenner	ATLAS	chair	Frank Filthaut	ATLAS	
Andrea García Alonso	ATLAS		Johannes Michel	Theory		Mengqing Wu	ATLAS	
Vanessa Mexner	Communication		Auke-Pieter Colijn	DM	scribe	Harm Schoorlemmer	CR	
Uwe Kraemer	DR&D		Alessandro Bertolini	GW		Enzo Tapia	GW	
Melissa van Beekveld	Theory	chair	Ann-Kathrin Perrevoort	LHCb		Andrii Usachov	LHCb	
Jorgen D'Hondt	Management	scribe	Roel Aaij	PDP		Robert Fleischer	Theory	scribe
Group 2 (Colloquium room)			Group 7 (Vertex)			Group 12 (Veltman centre)		
Alessandro Grelli	ALICE	scribe	Susanne Westhoff	Theory		Juraj Klaric	Theory	
Robin Hayes	ATLAS	chair	Hella Snoek	ATLAS	chair	Ivo van Vulpen	ATLAS	
Pieter van Braam van Vloten	PZ		Patrick Decowski	DM	scribe	Kristof De Bruyn	LHCb	
Teresa Bister	CR		Andreas Freise	GW		Martin van Beuzekom	DR&D	
Jacco de Vries	LHCb		Gerhard Raven	LHCb		Flavia de Almeida Dias	ATLAS	
Arjen Van Rijn	Management		David Groep	PDP		Mick Mulder	LHCb	
Group 3 (Vertex)			Group 8 (Datacenter)			Group 13 (Zoom)		
Mike Sas	ALICE		Jordy de Vries	Theory	chair	Jos Vermeulen	ATLAS	
Peter Kluit	ATLAS	scribe	Marcel Vreeswijk	ATLAS	scribe	Juan Rojo	Theory	
Cristina Galea	CR		Maxime Pierre	DM		Jory Sonneveld	DR&D	
Niels van Bakel	DR&D	chair	Maria Haney	GW		Suzan Basegmez du Pree	LHCb	
Wouter Waalewijn	Theory		Mara Senghi Soares	LHCb		Wouter Hulsbergen	LHCb	scribe
Daan van Eijk	Neutrinos		Jeff Templon	PDP				chair
Group 4 (Vertex)			Group 9 (Library)			Group 10 (Electron)		
Gijs van Weelden	ALICE	chair	Tristan du Pree	ATLAS		Pamela Ferrari	ATLAS	
Marion Missio	ATLAS		Lukas Graf	Theory	chair	Zef Wolffs	ATLAS	
Eric Laenen	Theory		Kelly Weerman	DM		Kevin Heijhoff	DR&D	
Dorothea Samtleben	Neutrinos		Bas Swinkels	GW		Kazu Akiba	LHCb	
Patrick Koppenburg	LHCb		Niels Tuning	LHCb	scribe	Rosemarie Aben	Management	
Sascha Caron	ATLAS	scribe	Martine Oudenhoven	Communication		Joao Paulo Costa	Technical Department	
Group 5 (Vertex)			Group 10 (Electron)			Group 11 (Positron)		
Marco van Leeuwen	ALICE	scribe				Frank Filthaut	ATLAS	
Clara Nellist	ATLAS	chair				Mengqing Wu	ATLAS	
Ronald Starink	CT					Harm Schoorlemmer	CR	
Maria Laura Piscopo	Theory					Enzo Tapia	GW	
Marcel Merk	LHCb					Andrii Usachov	LHCb	
James Mead	Neutrinos					Robert Fleischer	Theory	
Andrej Sarnatskyi	LHCb							