

Bfys Workshop “The Expert and the Newcomer’s View”

Groenlo, 25 – 27 June, 2018

Analyses in LHCb are increasingly of very high (statistical) precision; detector work is aimed at achieving an accordingly precise upgrade detector, while at the same time there are opportunities for new ideas/developments for a phase-II upgrade LHCb experiment. Each of us is an expert in one or more areas of technology or analysis work.

The theme of this year’s workshop is “*the expert and the newcomer’s view*”. New ideas of the expert often arise while giving explanations to a newcomer, while the newcomer has an open mind of asking “unexpected questions” and come up with “crazy ideas”. You are invited to do so at this workshop!

During this workshop you will play both the role of “expert” and of “newcomer”. A “newcomer” does not mean that you will actually start to do that research, but that you adopt *a newcomer’s view*, or put otherwise *an outsider’s view* to the research.

Here is the list of topics, and the list of assigned “experts” and “newcomers”. Please check that your name appears twice below: **once in blue** and **once in purple**.

1. *Vertexing (technology) in phase-II upgrade*
 - a. Expert view: Daniel, Tjeerd, Wouter
 - b. Newcomer view: Gerhard, Jeroen, Julius, Michele
2. *Long-lived particle searches and other exotica*
 - a. Expert view: Carlos, Elena, Igor, Danny
 - b. Newcomer view: Patrick, Mick, Jordy, Roman
3. *Strategies for very rare decays and LFV*
 - a. Expert view: Flavio, Gerco, Hilbrand, Koen
 - b. Newcomer view: Niels, Cristina, Lennaert, Luis
4. *Optimizing (the technology of) momentum measurement now and in future*
 - a. Expert view: Antonio, Jacco, Luis, Mauricio, Roman
 - b. Newcomer view: Elena, Igor, Sevda, Tjeerd
5. *CP violation and detector effects*
 - a. Expert view: Emma, Jeroen, Laurent, Michele, Sevda
 - b. Newcomer view: Gerco, Maarten, Marinda, Roel
6. *Online reconstruction algorithms*
 - a. Expert view: Gerhard, Julius, Roel, Sean
 - b. Newcomer view: Antonio, Carlos, Daniel, Mauricio
7. *Detecting leptons*
 - a. Expert view: Cristina, Maarten, Mick, Patrick
 - b. Newcomer view: Sean, Hilbrand, Jacco, Danny, Koen
8. *Branching Ratios*
 - a. Expert view: Niels, Jordy, Lennaert, Marinda
 - b. Newcomer view: Flavio, Laurent, Wouter, Emma

What do I ask of you? The plan of the workshop is a mix of presentations, discussions and “hackaton” and is as follows:

- Before the workshop: the expert group prepares a presentation on the motivation and plans of their research
- Workshop day 1: presentation of the expert slides *by the newcomer group*
- Workshop day 2: *round table discussions* on the topics
- Workshop day 3: new ideas presented *by the expert groups*

Preliminary agenda: the idea of this workshop is to balance presentations with discussions. Here is a tentative agenda (more details will follow on indico later): i

Monday June 25:

(14h00 – 18h00) Group presentations of expert slides *by the newcomers*.

(19h00 – 22h00) Dinner

Tuesday June 26:

(09h00 – 13h00) Working in groups and discussions

(14h00 – 18h00) Outdoors activity

Wednesday June 27:

(09h00 – 13h00) Plenary feedback of new ideas/insights/etc *by the experts*.

Practicalities:

The venue of the workshop is: <http://www.reirinck.com>

Travel arrangements to Groenlo will be made in due time.

Looking forward to a stimulating workshop,

Cheers,

- Marcel

Addendum: list of participants (“Aaij et al.”):

1. Roel Aaij
2. Flavio Archilli
3. Lennaert Bel
4. Sean Benson
5. Jordy Butter
6. Elena Dall’Occo
7. Maurice Dekker
8. Laurent Dufour
9. Sevda Esen
10. Mauricio Feo
11. Roman Greim
12. Wouter Hulsbergen
13. Daniel Hynds
14. Tjeerd Ketel

15. Patrick Koppenburg
16. Igor Kostiuk
17. Hilbrand Kuindersma
18. Marcel Merk
19. Mick Mulder
20. Gerco Onderwater
21. Antonio Pellegrino
22. Gerhard Raven
23. Jose Luis Rodrigo Ramon
24. Julius Roeder
25. Cristina Sanchez Gras
26. Emma Schepers
27. Marinda Tervoert
28. Niels Tuning
29. Jeroen van Tilburg
30. Carlos Vázquez Sierra
31. Maarten van Veghel
32. Michele Veronesi
33. Jacco de Vries
34. Danny Wernik