Implications of LHCb measurements and future prospects

11th edition 19-22 October 2021

Joint LHCb-Theory workshop

Tue 19 Oct 2021

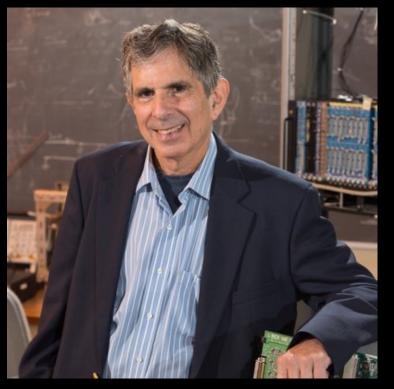
Sheldon Stone 1946-2021

Sheldon was a true all round physicist, having made major contributions to data analysis, detector construction and phenomenology. He was co-spokesperson of both the CLEO and BTeV Collaborations. He was LHCb Upgrade Coordinator 2008-2011, and a driving force behind the Upstream Tracker.

He had a profound impact on the LHCb physics programme and was a lead proponent of a large number of LHCb Physics papers.

He was a constant innovator and inspiration to all those who knew him. We will greatly miss him.

Our deepest condolences to his wife Marina Artuso, & family.



Words prepared by Chris Parkes, LHCb Spokesperson.

Purpose of the meeting is to

- consider the latest results from LHCb
- discuss possible interpretations and
- identify important channels and observables to test leading theoretical frameworks in the near and longer term future of the LHCb data taking

• <u>https://indico.cern.ch/event/1055778/timetable/</u>

Tue 19 Oct	Wed 20 Oct	Thu 21 Oct	Fri 22 Oct	
CERN EP Seminar	Flavour	More RD+SLB (everyone welcome)	2. CPV +	
1. Spectroscopy	Anomaly		mix	
Workshop	3. Heavy Ion	Keynote A.Buras		
		+ high-pt	(everyone welcome)	

- <u>Opening</u>:
 - Tue 19 Oct 13:00 LHCb Overview:

Giovanni Cavallero

- <u>Closing</u>:
 - Fri 22 Oct 14:00 Flavour Physics Overview: Andrzej Buras
 - Zoom: <u>https://cern.zoom.us/j/64695333704?pwd=aXZzelA3aTZrcWdMcDRtb2N0TGl2UT09</u>

Organization

Scientific programme shaped by the Stream conveners :

- <u>1. QCD spectroscopy and exotic hadrons</u>
 - Sasa Prelovsek, Meng-Lin Du (Theory)
 - Mengzhen Wang , Lorenzo Capriotti (LHCb)
- 2. Mixing and CP violation in charm and beauty
 - Maria Laura Piscopo, Jason Aebischer (Theory)
 - Peilian Li, Adam Davis (LHCb)
- <u>3. High-p_T SM and Heavy Ion physics</u>
 - Andrii Usachov, Benjamin Audurier (LHCb),

This year the organising committee includes :

 Alexander Lenz, Chris Parkes, Danny van Dyk, Guy Wilkinson, Jure Zupan, Marco Pappagallo, Matthew John Charles, Monica Pepe-Altarelli, Niels Tuning, Svetlana Fajfer, Yasmine Amhis

Logistics

• Implications (Main Auditorium)

– 70 pers. max.		Implications	Flavour
 No sanitary pass needed 			Anomaly
 First-come-first-serve 	Total	204	579
	In person	84	121

- Flavour Anomaly Workshop (Main Audiorium)
 - 200 pers. max.
 - Retrieve badge on <u>Wednesday 8:30</u>
 - Show EU/Swiss sanitary pass
 - First-come-first-serve



Zoom rooms and discussion

- Two zoom rooms in parallel:
 - Workshop / presentations: <u>64695333704</u>
 - https://cern.zoom.us/j/64695333704?pwd=aXZzelA3aTZrcWdMcDRtb2N0TGl2UT09
 - Discussions / coffee: <u>69069265933</u>
 - https://cern.zoom.us/j/69069265933?pwd=Yno4NG50aytxY25FeVNGbHBPeWhJZz09
- Both rooms are open throughout workshop
- Discussion / coffee zoom room:
 - For discussions after/between the talks
 - Can also be used during talks, for informal chats
 - We encourage all of you to be as informal as possible in the discussions that will take place ⁽ⁱ⁾
- Presentation: please switch camera on for a personal 'feel'
- Questions: please use "raise-hand" feature in zoom