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# Flavour Anomaly Workshop

20 October 2021

Organizing committee:

Alexander Lenz, Alexis Pompili, Aurelio Juste, Chris Parkes, Danny van Dyk, Guy Wilkinson, Jure Zupan, Marcella Bona, Marco Pappagallo, Maurizio Pierini, Monica Pepe-Altarelli, Niels Tuning, Svetlana Fajfer, Yasmine Amhis

# Programme

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You are welcome to attend Thursday morning and Friday closing talk!

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

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

- Closing:

- Fri 22 Oct 14:00 Flavour Physics Overview: Andrzej Buras
- Zoom: <https://cern.zoom.us/j/64695333704?pwd=aXZzelA3aTZrcWdMcDRtb2N0TG12UT09>



09:30 → 12:45 Rare and Semileptonic Decays

500/1-001

09:30	<b>Recent LHCb results on <math>B_s^0 \rightarrow \phi \mu^+ \mu^-</math></b> Speaker: Eluned Anne Smith (Universitaet Zuerich (CH))	<p style="color: red; font-size: 1.2em;"><math>B^0_s \rightarrow \phi \mu^+ \mu^-</math></p> <p style="color: red; font-size: 1.2em;">(LCSR, Lattice)</p> <p style="color: red; font-size: 1.2em;"><math>b \rightarrow s \mu^+ \mu^-</math></p> <p style="color: red; font-size: 1.2em;">Discussion</p>	⌚ 15m
09:55	<b>Light Cone Sum Rules for <math>B_s^0 \rightarrow \phi \mu^+ \mu^-</math> and <math>B_s^0 \rightarrow K^- \mu^+ \nu_\mu</math></b> Speaker: Alexander Khodjamirian (University of Siegen)		⌚ 15m
10:20	<b>Lattice QCD of SL form factors: <math>B_s^0 \rightarrow \phi \mu^+ \mu^-</math> and <math>B_s^0 \rightarrow K^- \mu^+ \nu_\mu</math></b> Speaker: Jonathan Flynn (University of Southampton)		⌚ 15m
10:40	<b><math>b \rightarrow s \ell \ell</math> Discussion: Building Consensus</b> <ul style="list-style-type: none"> <li>▪ how conservative does one need to be?</li> <li>▪ how to quantify the significance?</li> <li>▪ how should Theory and LHCb proceed jointly from here?</li> </ul>		⌚ 45m

11:25	<b>Coffee &amp; Chat room</b>	⌚ 15m    500/1-001
Speakers: Marco Pappagallo (Universita e INFN, Bari (IT)), Niels Tuning (Nikhef National institute for subatomic physics (NL))		

11:25	<b>Coffee Break</b>	⌚ 15m
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11:40	<b>Theory of Rare Charm</b> Speaker: Marcel Golz (TU Dortmund)	<p style="color: red; font-size: 1.5em;">}</p> <p style="color: red; font-size: 1.5em;"><b>Rare Charm</b></p>	⌚ 15m
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12:00	<b>Rare Charm at LHCb</b> Speaker: Dominik Stefan Mitzel (Technische Universitaet Dortmund (DE))	⌚ 10m
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12:15	<b>Very rare beauty decays</b> Speaker: Ifan Williams (University of Cambridge (GB))	<p style="color: red; font-size: 1.5em;">}</p> <p style="color: red; font-size: 1.5em;"><b>Very Rare</b></p> <p style="color: red; font-size: 1.5em;">+</p> <p style="color: red; font-size: 1.5em;"><b>Radiative beauty</b></p>	⌚ 10m
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12:30	<b>Rare radiative baryon decays</b> Speaker: Luis Miguel Garcia Martin (University of Warwick (GB))	⌚ 10m
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# Sheldon Stone Obituary – CERN Courier

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## Sheldon Stone 1946-2021

20 October 2021



Sheldon Stone was distinguished professor of physics at Syracuse University. Credit: Syracuse University <https://thecollege.syr.edu/people/faculty/stone-sheldon/>

Sheldon Stone, who passed away on 6 October, was one of the foremost physicists of his generation. In terms of creativity and productivity he had few equals in heavy-quark physics worldwide. His skills in leadership, physics analysis and instrumentation served our field well.

Sheldon had a central role in the success of the CLEO experiment at the Cornell Electron Storage Ring, which over a period of almost 30 years laid the foundations for our current understanding of heavy-flavour physics. He served as both CLEO analysis coordinator and co-spokesperson, and had a leading role in many important discoveries such as the observation of the  $B^+$ ,  $B^0$ , and  $D_s$  mesons. In 2000 he was one of the intellectual leaders who proposed to convert CLEO into a charm factory,

- CERN courier has posted an obituary of Sheldon to coincide with this flavour anomaly day:

<https://cerncourier.com/a/sheldon-stone-1946-2021/>

- Many thanks to Ian Shipsey for taking the lead in the preparation of this tribute, and to Matthew Chalmers editor of the Courier

<https://cerncourier.com/a/sheldon-stone-1946-2021/>