



DEPARTMENT OF

PHYSICS

HarnewFest 28th September 2022



Good wishes from those who couldn't make it here today:

Gary Barker	Christoph Frei	Olivier Leroy	Nigel Smaile
Adrian Bevan	Marco Gersabeck	Marcel Merk	Terry Sloan
Nick Brook	Laurence Godfrey	David Miller	Nigel Smith
Craig Buttar	Mike Green	Tatsuya Nakada	Jenny Thomas
Jon Butterworth	Geoff Hall	Monica Pepe-Altarelli	Mark Thomson
Roger Cashmore	Peter Hobson	Andy Parker	Emmanuel Tsesmelis
Mat Charles	Peter Jenni	Arnulf Quadt	Roman Walczak
Allan Clark	Daniel Johnson	Olivier Schneider	Terry Wyatt
Tony Doyle	Matt Kenzie	Tara Shears	
Robert Fleischer	Patrick Koppenburg	Mary Elizabeth Shewry	



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I am probably one of the few people left who might remember Neville from his PhD days at Westfield College, with John Strong as his supervisor. His project was to carry out an energy calibration of the neutron counter at the Omega Spectrometer, using the CERN synchrocyclotron. Thus he started his particle physics career using one of the lowest energy accelerators at the time, to end it using the highest.

Just as memorable to me were the chocolate cakes baked by Maggie he would occasionally bring in.

Best wishes to all
Mike (Green)

Mike Green

Difficult to believe that the young guy I met in UA2 is preparing to retire. At least you were allowed to continue until 68

That said, looking back, we have had an amazing ride over the past 40 years. When I see your contributions over that time - of course to UA2 but especially to establishing and building the LHCb experiment, I can only be amazed. And to retire at a time when LHCb is finding really interesting hints in the data, quite an end. I hope and expect that you will keep involved with that over the coming years. From what I understand you are still very busy.

Best wishes,
Allan. (Clark)

Allan Clark



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I have known Nev as a close personal friend and sometime colleague for some 48 years. I long ago relinquished the standing to speak of his achievements in physics, so I want to focus instead on his personal attributes.

Neville has an unusually open personality marked by kindness, approachability and personableness. Moreover, he's what software engineers used to call WYSIWYG - what you see with Nev is exactly what you get. These are uncommon attributes, the more so in academic circles. And who better to unravel the workings of the universe than someone who has unravelled their own workings sufficiently to be as agreeable as Nev is?

I wish Neville as much success in his post-retirement as he has had in his career at Keble Road, which I am certain will be the lesser for his departure.

Best wishes

Laurence Godfrey

Laurence Godfrey



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Congratulations on your impending retirement, Neville! Amazingly, it's two decades since I joined the particle physics selection panel under your chairmanship, and learnt a lot from the way you stewarded that committee (and the community!). Much science has happened since then, including LHCb cranking out all these new particles, which has been wonderful to see. Hope to share a pint again some time, but meanwhile loving the photos of your trekking expeditions. I would say enjoy retirement, but you clearly already are!"

Best wishes

Nigel (Smith)

Nigel Smith

Neville, I can only say in words how much you have influenced my thinking in collaboration life over the many years. Your wisdom and style, I have always admired. Together with a few key persons, you are the reason that LHCb has been a success. As I saw it at the time, for the RICH, you and Dave Websdale simply were essential to make it all happen.

Your humor has always been a joy to me, I think by now I almost understand your jokes. Although, on the other hand, I am still pondering on the after-dinner joke you made at the time in beauty in Amsterdam. (Mine was horrible - haha).

Had I been present, I certainly was planning to recount an occasional drinking event - I think of the Krakow LHCb week for example.

Best wishes

Marcel (Merk)

Marcel Merk



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Dear Neville!

With fond memories I remember happy years together in UA2, we must have signed together some 20 papers in 1984 – 1988.



UA2
Collaboration
Meeting
Heidelberg
1985

My best wishes to you, and your 'LHCb family' for your special day, and for all your new adventures in physics as well as in exploring now many other avenues ...

Most friendly greetings

Peter Jenni

STUDY OF W^{\pm} AND Z^0 IN UA2

The UA2 Collaboration
Bern - CERN - Copenhagen (NBI) - Heidelberg - Orsay (LAL) -
Pavia - Perugia - Pisa - Saclay (CEN)

presented by Neville Harnew
CERN



ABSTRACT

A preliminary analysis of high p_T electrons detected in the UA2 experiment at the CERN $\bar{p}p$ Collider ($\sqrt{s} = 546$ and 630 GeV) has been done. Results on W^{\pm} and Z^0 production and properties are presented and compared to the expectations from the Standard Electroweak Model. We find good agreement between the UA2 experimental results and theoretical predictions.

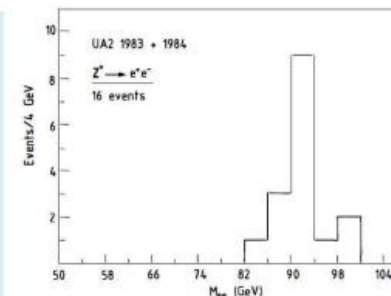


FIG. 10



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...We ...in the UK, were planning and later building the central tracking detector and its electronics for the ZEUS experiment at HERA. The novel design originated from the central tracking detector used in the CDF detector at Fermilab but the electronics, DAQ and trigger had to be totally different (all 'pipelined') to cope with the HERA. Nev joined this activity and was the key person re measurement' system on the axial wires. The chamber a critical to the successes of ZEUS , due in no small part to

I have only touched on Nev's contribution to particle physics deal with his contributions to undergraduates both as a Anne's (all so important in our university).

Nev, it has been a pleasure to work with you over the years retirement but don't disappear. I am sure there is a seat to them)' office and it will be great to see you there.

Roger

4.3. The central tracking detector

The central tracking detector (CTD) [9] consists of 72 cylindrical drift chamber layers organized into 9 'superlayers'. Four of these superlayers (2, 4, 6 and 8) have small stereo angles to allow the three dimensional reconstruction of tracks. All wires will have 100 MHz FADCs to allow accurate reconstruction in the $r-\phi$ plane. The three innermost axial superlayers (1, 3 and 5) are in addition instrumented with z-by-timing electronics [10], which measures the z coordinate from the difference in the time of arrival of pulses at each end of the wire. It also measures the $r-\phi$ coordinate from the arrival time of the pulse at the wire relative to the beam crossing time (in intervals of 48 ns). In this data taking period only the z-by-timing electronics was used. The present resolution in multitrack events is measured to be about 4.5 cm in z and 1 mm in $r-\phi$.

Roger Cashmore



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It was a memorable moment we went through together during the very beginning of the LHCb experiment with all the ups and downs: Technology choices to be made, e.g. for the RICH photon detectors, muon chambers and Level-0 calorimeter trigger electronics; appointments for leading positions; difficulties in the US participation due to the Congressional cap on the US spending for the LHC project, so on and so forth, and of course not to forget the choice of the name for the experiment, which was changed from LHC-B to LHCb with a nice logo. I appreciate very much the role you played as the chair of the collaboration board during that turbulent but also interesting and exciting period.

You have also successfully led the UK LHCb groups making crucial contributions to the experiment in hardware, software, computing and physics. It is truly remarkable that all the major UK universities are in the collaboration, which neither ATLAS nor CMS managed!

With the retirement, you will naturally spend time for yourself and your family. However, your legacy in the LHCb experiment will for sure remain. I sincerely wish you good luck and happy retirement.

Yours Tatsuya

Tatsuya Nakada