

*Seminar in honor of
Prof. Sir T.S. Virdee
14 October 2022
The Kohn Centre, the
Royal Society.*

Talk given by Jos Engelen,
Professor emeritus University of Amsterdam / Nikhef

Writeup:
www.nikhef/~h02/talk.pdf

February 1979

Soft strong interaction physics using bubble chambers, the latter years

862
SIGMA HYPERON PRODUCTION
IN A TRIGGERED BUBBLE CHAMBER

SIGMA HYPERON PRODUCTION
IN A TRIGGERED BUBBLE CHAMBER

by

Tejinder Singh Virdee

A thesis submitted for the degree
of Doctor of Philosophy of the
University of London

Department of Physics
Imperial College
London SW7

February 1979

MULTICHANNEL ANALYSIS OF HIGH STATISTICS DATA
ON THE REACTION $K^- p \rightarrow \bar{K}^0 \pi^- p$ AT 4.2 GeV/c

PROEFSCHRIFT

TER VERKRIJGING VAN DE GRAAD VAN DOCTOR IN DE
WISKUNDE EN NATUURWETENSCHAPPEN
AAN DE KATHOLIEKE UNIVERSITEIT TE NIJMEGEN, OP GEZAG VAN
DE RECTOR MAGNIFICUS, PROF. DR. P. G. A. B. WIJDEVELD,
VOLGENS BESLUIT VAN HET COLLEGE VAN DECANEN
IN HET OPENBAAR TE VERDEDIGEN
OP VRIJDAG 2 FEBRUARI 1979
DES NAMIDDAGS TE 2 UUR PRECIES

door

JOSEPH JOHANNUS ENGELEN
geboren te Maasniel

Druk: Krips Repro, Meppel

NA14: 1979 – 1985 (NA14/2)

Hard scattering of real photons <90 GeV>

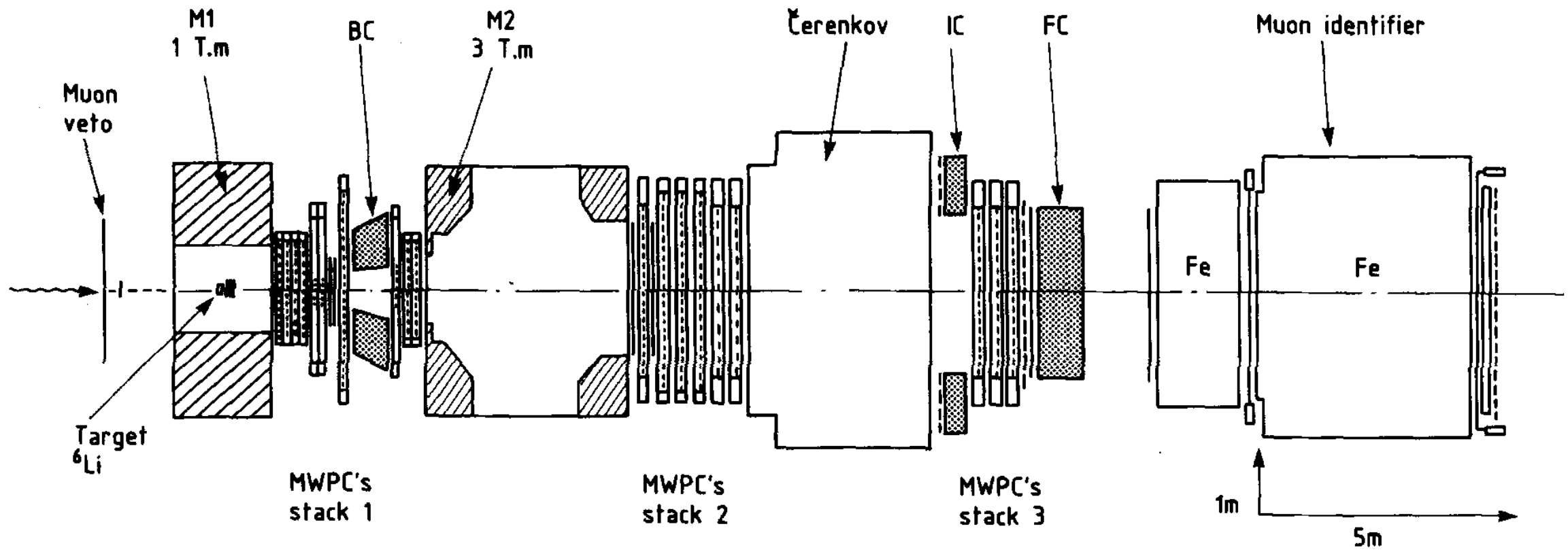
${}^6\text{Li}$ isoscalar target

AEG magnet

La Couronne

Goliath

ILSA OLGA




NA14 spectrometer. Two dipoles, three e.m. calorimeters, Cerenkov, PWC's, muon filter

Learning how to drive

La 'quatrelle'

Renault 4L



A red Mazda sports car, likely a Mazda MX-5, is shown driving on a paved road. The car is in motion, with a blurred background of green trees and a cloudy sky. The license plate reads 'MAZ 3580'. The car is positioned in the lower right quadrant of the frame, moving towards the left.

Learning how to race

Jongens waren we – maar aardige jongens (Nescio in 'Titaantjes' (1915)

'Boys we were – but nice boys'

The first NA14 paper. Written by TSV

$$\gamma q \rightarrow \gamma q$$

Sensitive to 4th power of
quark charge

HO perturbative QCD
calculations of inclusive
 γ signal

MEASUREMENT OF DEEP INELASTIC COMPTON SCATTERING OF HIGH ENERGY PHOTONS

NA 14 Collaboration

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P. BONAMY^g, P. BORGEAUD^g, B. BOUQUET^d, J.M. BROMⁱ, J.M. BRUNET^f, H. BURMEISTER^b,
M. BURTCHELL^c, S. COSTA RAMOS^c, F. COUCHOT^d, B. D'ALMAGNE^d, M. DAVID^g,
A. DE BELLEFON^f, A. DE LESQUENS^g, P. DELLO RUSSO^{i,1}, A. DUANE^c, J.P. ENGELⁱ,
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Y. LEMOIGNE^g, K. MAESHIMA^b, T. MARSHALL^{g,4}, J.G. McEWEN^h, J. MORRIS^{c,5},
P. MOUZOURAKIS^{d,6}, R. NAMJOSHI^{c,7}, B. NANDI^{c,8}, Ph. NOON^c, S. ORENSTEIN^{i,9},
T. PAPADOPOULOU^a, J.B.M. PATTISON^b, P. PETROFF^d, D. POUTOT^f, P.G. RANCOITA^{g,10},
F. RICHARD^d, P. ROUDEAU^d, A. ROUGE^e, M. SCHAEFFERⁱ, Ch. SEEZ^c, H. SHOOSHTARI^h,
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G. VILLET^g, T.S. VIRDEE^c, A. VOLTE^f, D.M. WEBSDALE^c, J. WEST^{c,11}, M. WINTER^{b,12},
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^f Collège de France, Paris, France

^g DPHPE, Saclay, France

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ⁱ CRN et Université Louis Pasteur, Strasbourg, France

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^k Institute for Nuclear Studies, Warsaw, Poland

Received 5 January 1985

We present the first results on inclusive photo-production of prompt photons at high transverse momenta. The data were taken in an open spectrometer at CERN using a high intensity photon beam with energy between 50 and 150 GeV. After subtracting the yield of photons from indirect sources, a clear excess is observed for transverse momenta above 2.5 GeV/c. Deep inelastic Compton scattering with appropriate QCD corrections account for this excess. The data disfavour the gauge integer charge quark models so far proposed.

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² Present address: Brookhaven National Laboratory, Upton, NY, USA.

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⁴ On leave from Indiana University, Bloomington, IN, USA.

⁵ Present address: Logica Ltd, UK.

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⁷ Present address: Rutgers University, New Brunswick, NJ, USA.

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⁹ On leave from City College, New York, NY, USA.

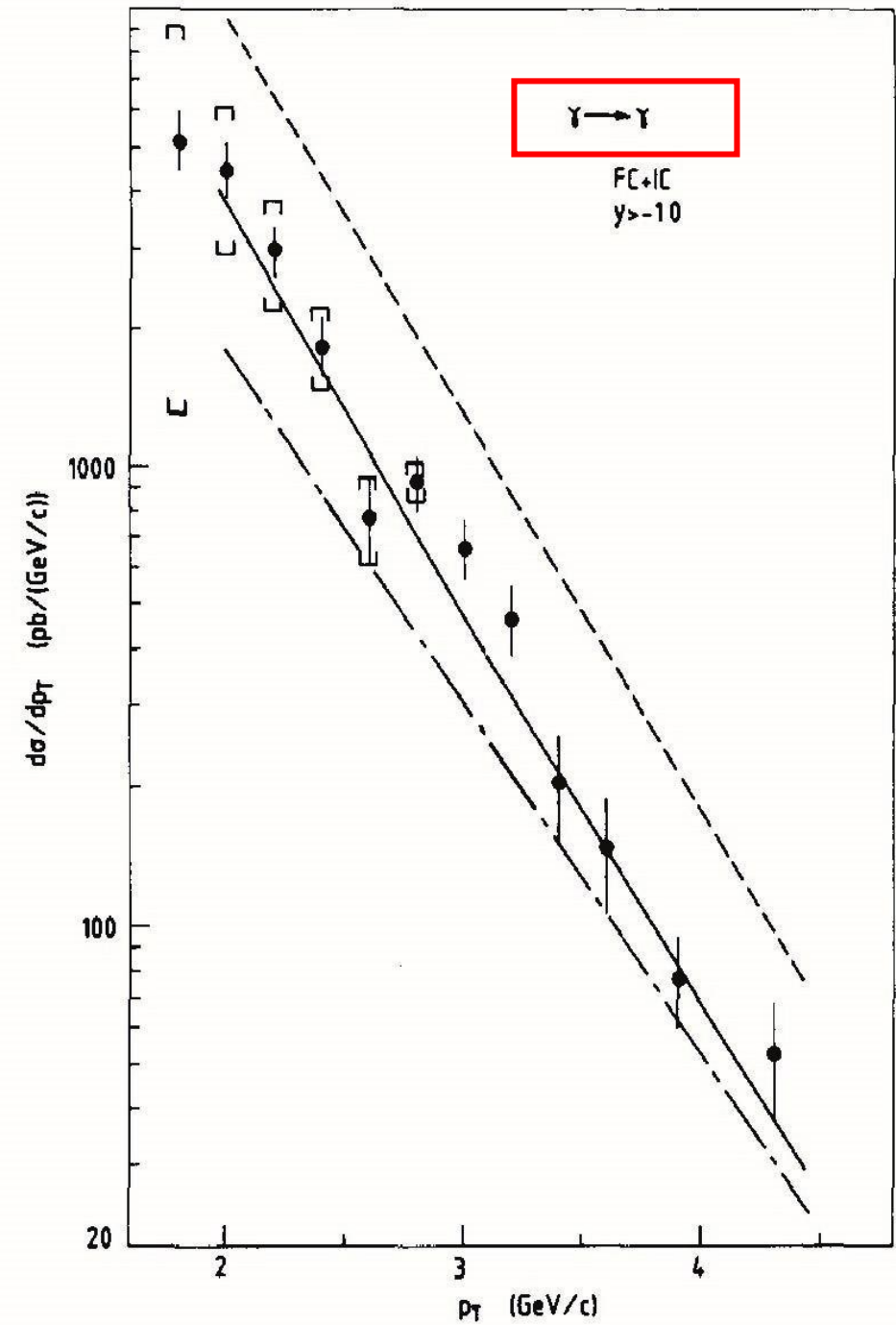
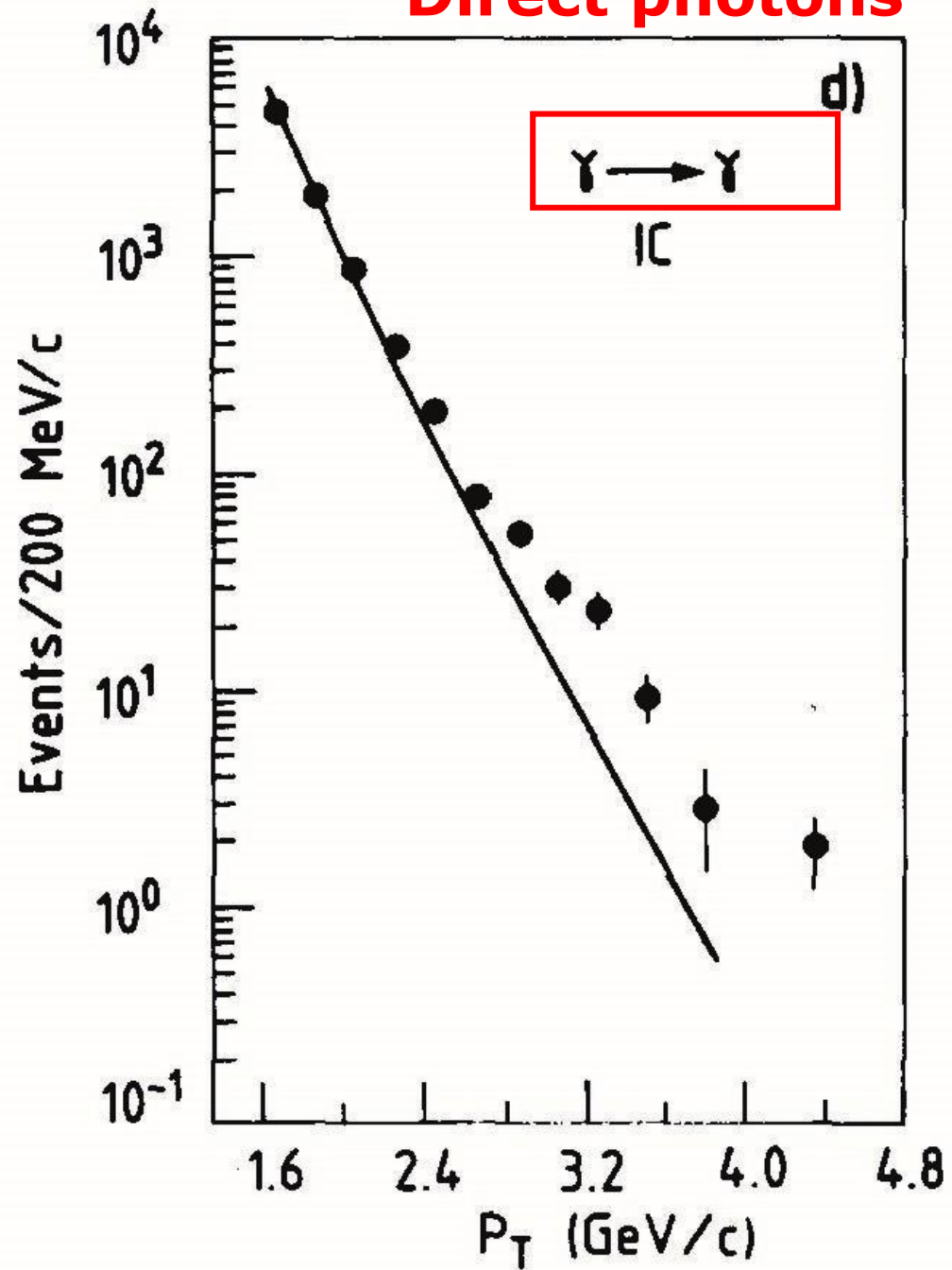
¹⁰ On leave from INFN-Milano, Milan, Italy.

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Direct photons

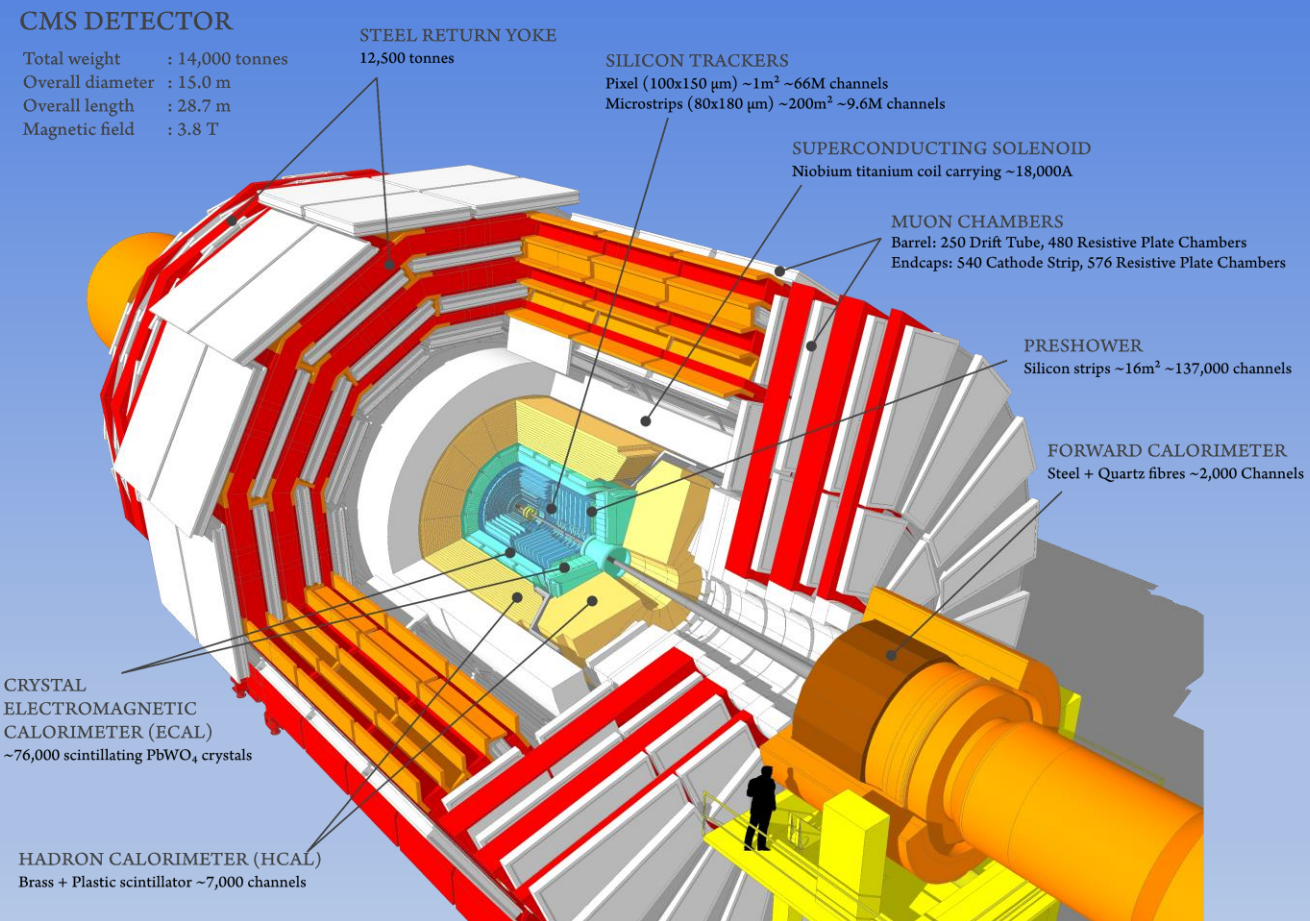


> 1985: UA1 + R&D (warm liquid calorimetry), PbWO₄, H → 2 gamma, CMS

Important workshops: Aachen 1990
Evian 1992

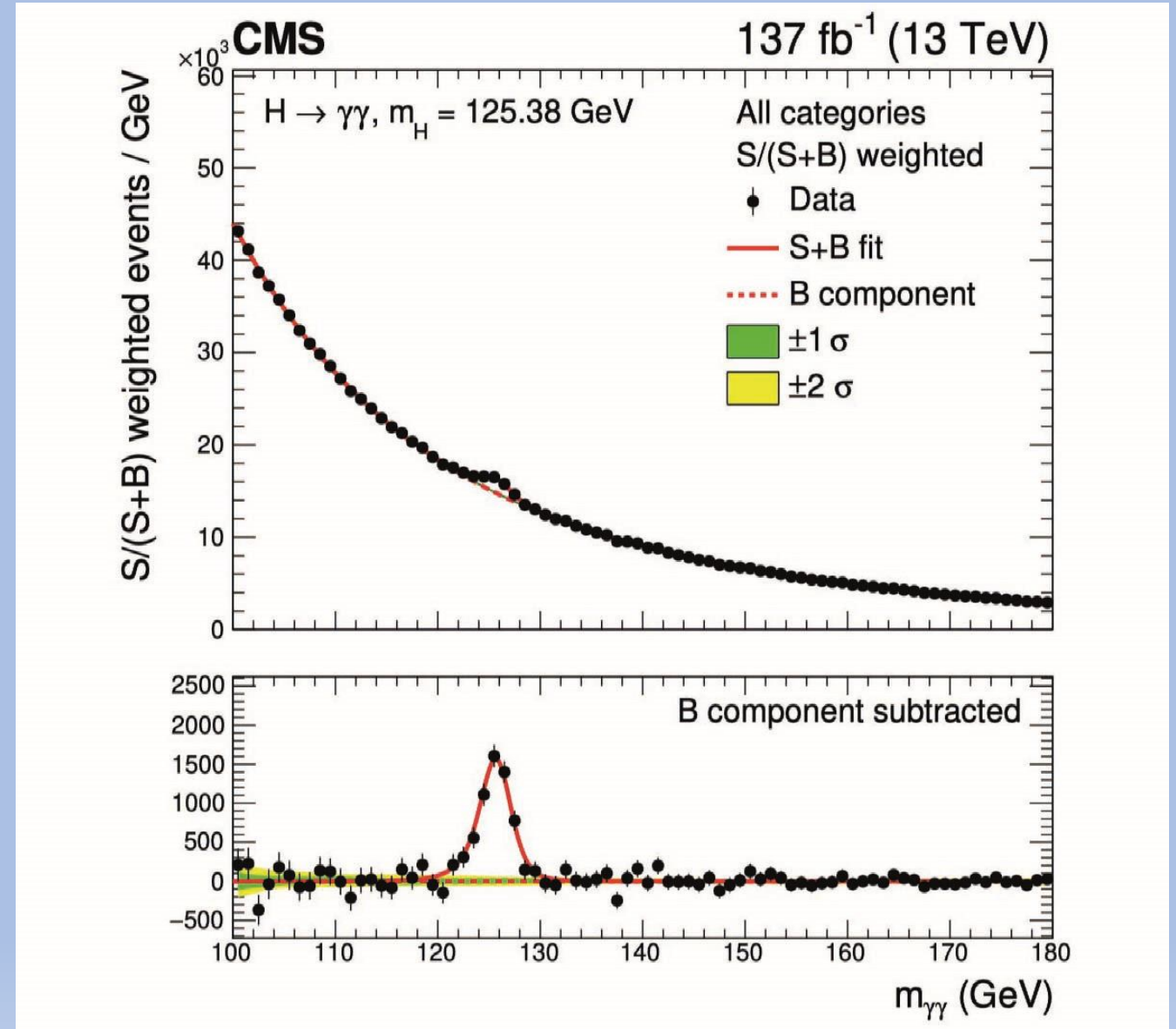
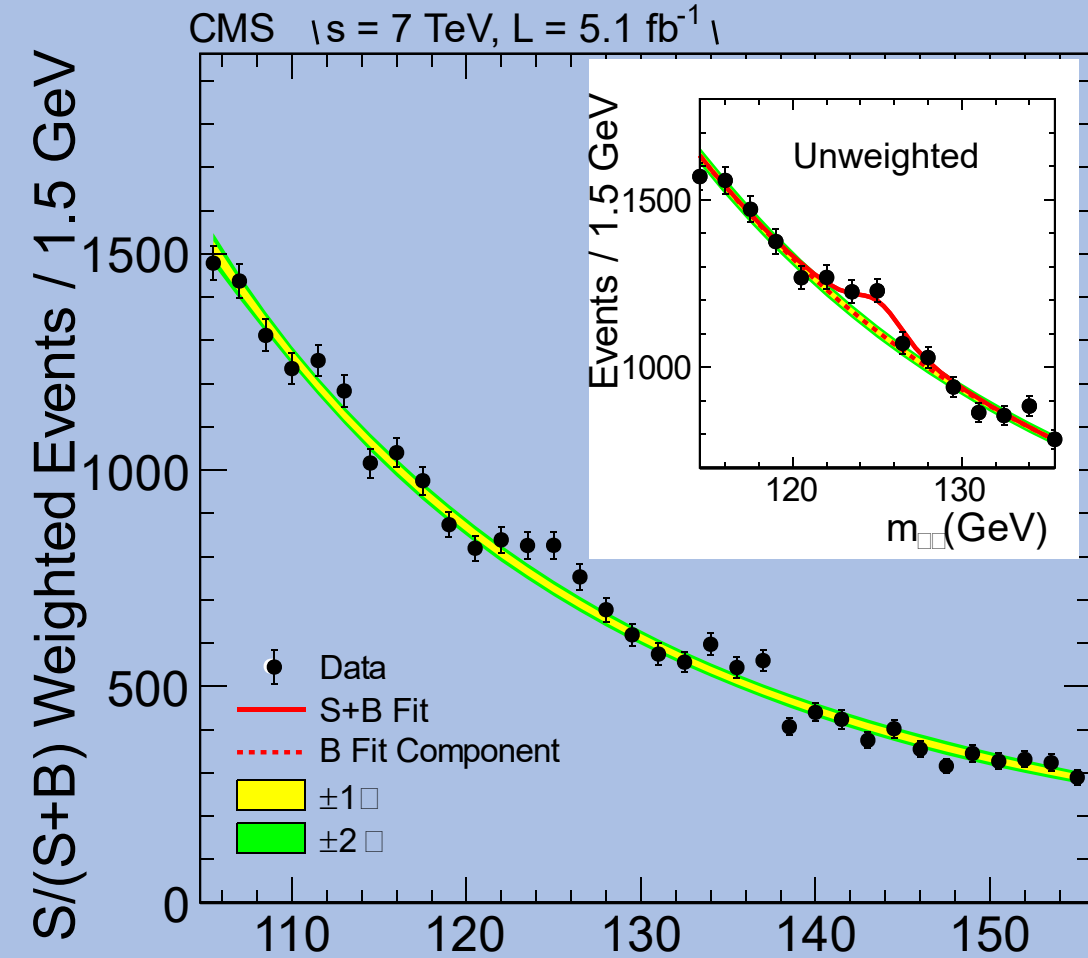
LHCC < - - > CMS
CERN management < - - > CMS
Resources Review Boards < - - > CMS

The Compact Muon Solenoid



2021, 25 x statistics:

Discovery – 2012:





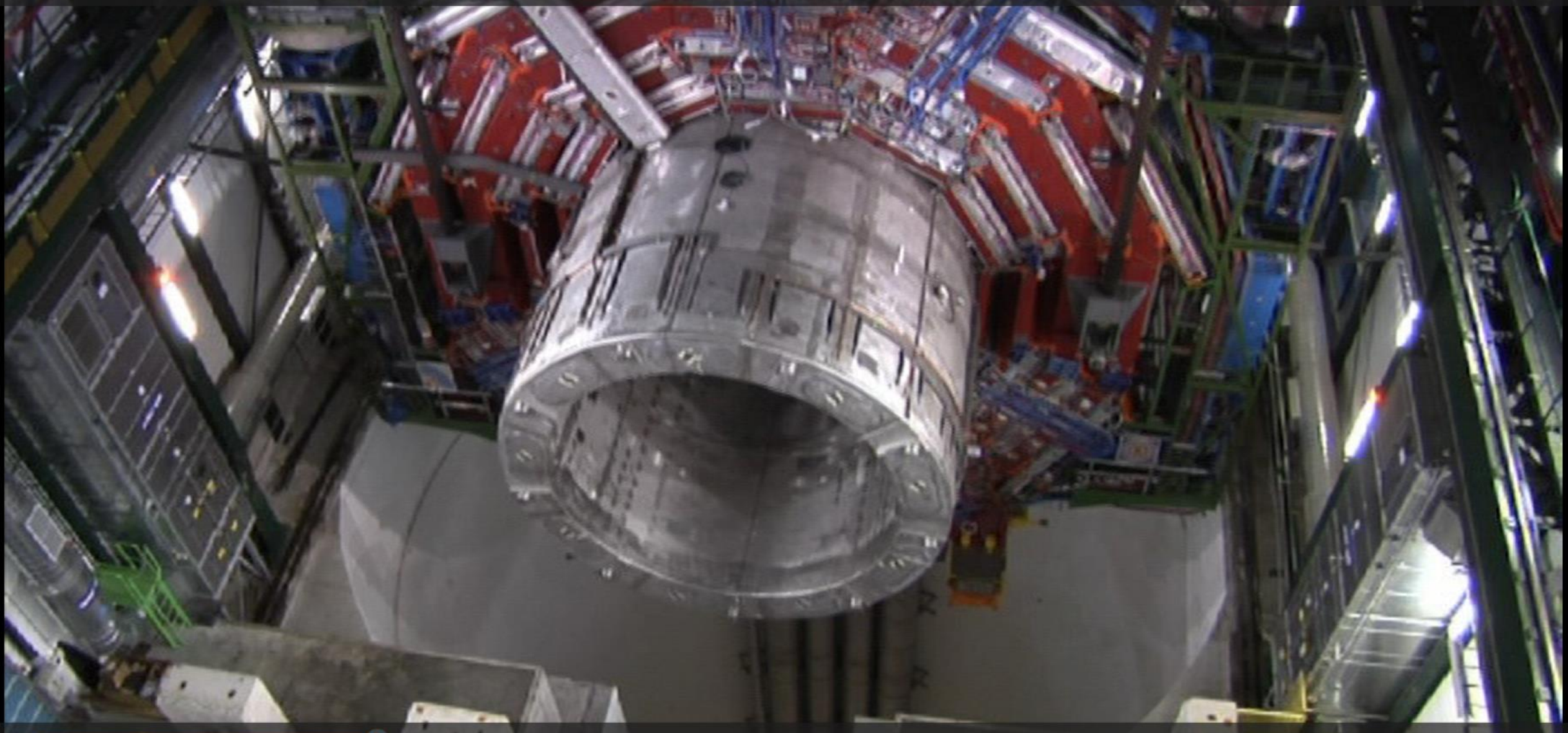
Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment



Volume 385, Issue 3, 1 February 1997, Pages 425-434

Studies of lead tungstate crystal matrices in high energy beams for the CMS electromagnetic calorimeter at the LHC

G Alexeev^o, E Auffray^e, P Baillon^e, D Barney^e, G Bassompierre^b, E Bateman^d, K.W Bell^d, Y Benhammou^s, P Bloch^e, D Bomestar^r, B Borgia^q, J Bourotte^l, S Burge^d, W Cameron^h, R Chipaux^f, D Cockerill^d, J Connolly^d, I Dafinei^{e,r},¹, P Denes^p, P Depasse^s, K Deiters^t, L Dobrzynski^l, H El Mamouni^s, J.L Faure^f, M Felcini^u, M Fingerⁿ, T Flügel^t, F Gautheron^e, A Givernaud^f, S Gninenko^k, N Godinovic^r, D.J Graham^h, J.P Guillaud^b, E Guschin^k, M Haguenaue^l, H Hillemanns^a, H Hofer^u, B Ille^s, S Jaaskelainen^e, V Katchanov^o, B Kennedy^d, T Kirn^a, M Korzhik^j, K Lassila-Perini^u, M Lebeau^e, P Lebrun^s, P Lecoq^e, G Lecoeur^e, P Lecomte^u, E Leonardi^q, E Locci^f, R Loos^e, D Ma^m, F Martin^s, J.P Mendiburu^b, Y Musienko^k, P Nedelec^b, F Nessi-Tedaldi^u, D Newbold^c, H Newman^m, M Oukhanov^o, L Pacciani^q, J.P Peigneux^b, S Pirro^q, S Popov^k, I Puljak^r, C Purves^c, D Renker^t, F Rondeaux^f, E Rosso^e, R Rusackⁱ, H Rykaczewski^u, D Schmitz^a, M Schneegans^b, J Schwenke^a, C Seez^{g,h}, I Semeniouk^k, P Shagin^o, S Shevchenko^m, X Shi^g, D Sillou^b, D Simohand^s, A Singovsky^o, I Soric^r, B Smith^d, R Stephenson^d, P Verrecchia^f, J.P Vialle^b, T.S Virdee^{e,2}, R.Y Zhu^m





'find author virdee' (= Jim + Jas)

The screenshot shows the INSPIRE HEP search results for the query 'f a virdee'. The page includes a search bar, navigation tabs, a date histogram, a citation summary table, and a bar chart comparing citeable and published papers across citation ranges.

Search Bar: literature | f a virdee

Navigation: Literature | Authors | Jobs | Seminars | Conferences | More...

Filters:

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 - Single author: 31
 - 10 authors or less: 45
- Exclude RPP:
 - Exclude Review of Particle Physics: 1,457
- Document Type:
 - article: 1,402
 - published: 1,385

1,457 results | cite all

Citation Summary

Exclude self-citations

	Citeable	Published
Papers	1,427	1,384
Citations	92,557	91,524
h-index	130	130
Citations/paper (avg)	64.9	66.1

Papers by Citation Range

Citation Range	Citeable	Published
0	37	28
1-9	276	252
10-49	654	645
50-99	268	268
100-249	148	148
250-499	32	32
500+	12	11



Happy birthday Jim!

And:

'I know you are not quite there yet, but even during partial retirement, enjoy the freedom it brings, together with your loved ones, together with your friends!'