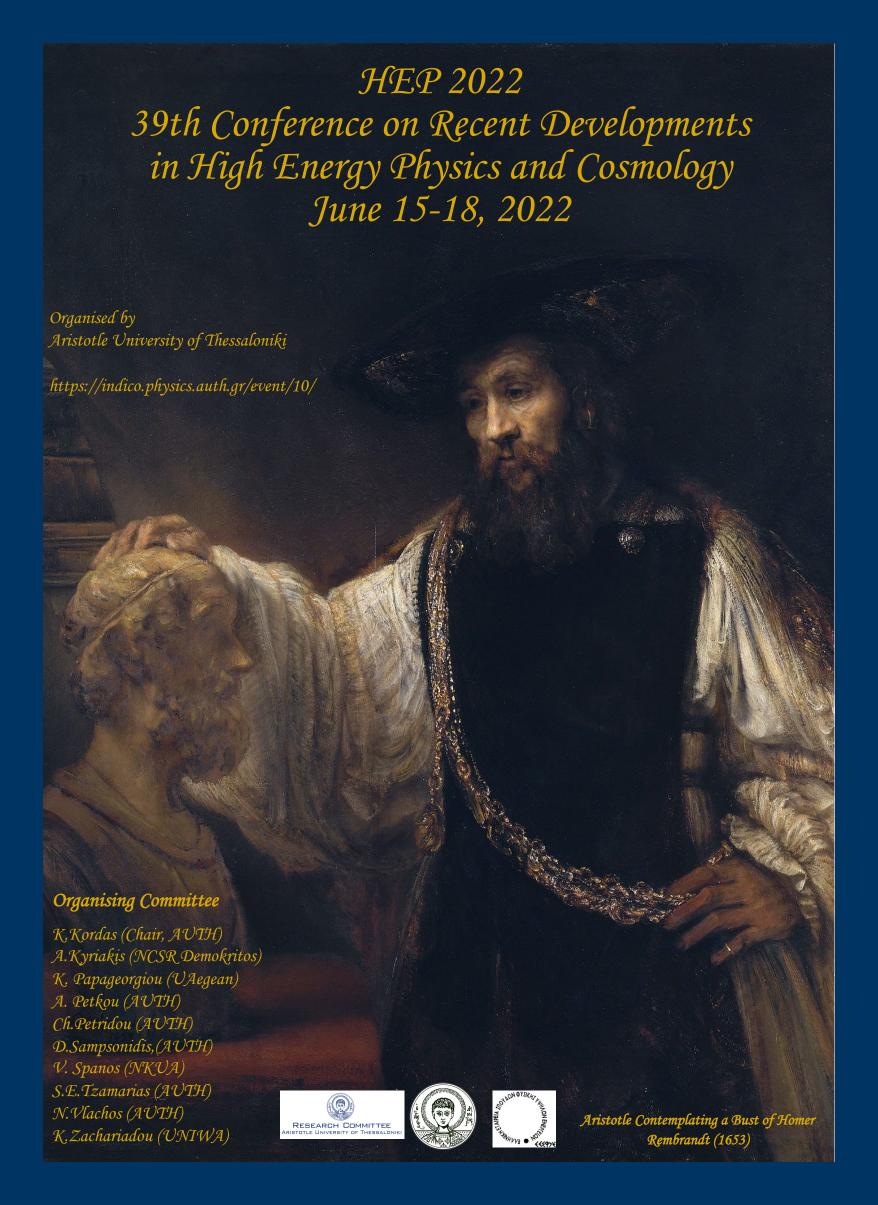
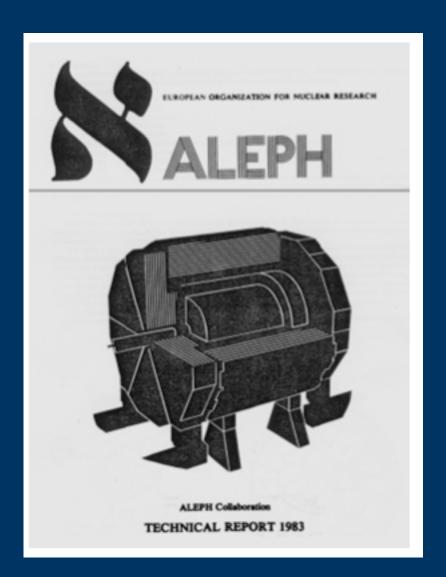
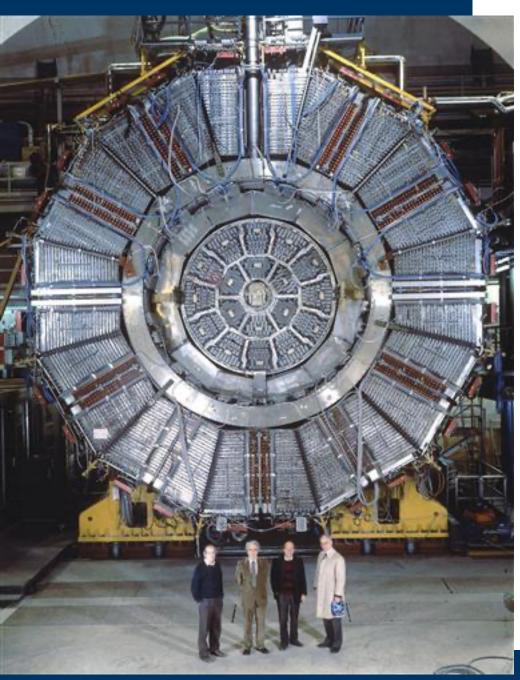
# HEP2022

39th Συνάντηση ΕΕΣΦΥΕ Τιμητική εκδήλωση για Άννα Βαγιάκη και Εριέττα Σιμοπούλου



I. Efthymiopoulos - 16.06.2022





# 1982-1983

# THE LETTER OF INTENT

ALEP	Н	
List of participal	ng mot	tute
Bari Pisa Torino Trisote	] :	Italy
Demokutos	]	C Reace
Dortmund Haidel berg MPI Munchen	] (	FERMANY
edinlugh Glasgor- Lancaster Rutherford Sheffished Westfield College		U. K.
E.P. Palaisem Onday Sackay	]	Frence
CERN	1	U.S.A.

### Recommendation by the LEPC

Following the letter of Intent in March 1982 (on the left is the first transparency of Jacques' presentation to the LEFC), Aleph was recommended by the LEPC at its meeting on 16 November 1982 (see the DG's letter opposite).

The LEPC required a technical report to be produced by 25 April. 1983 where a number of technical and financial issues had to be addressed and specified the following:

- TPC: a prototype of at least a 1.5 m long drift length, with magnetic field (later known as TPC 90)
- Shower counter: a prototype should be built with a mini tower geometry, large enough to contain a full shower of  ${\sim}10\,{\rm GeV}$ energy. It should be tested in a magnetic field and the energy and spatial resolution determined. And a prototype of a full size barrel section should be built and tested

At the turn on, the magnet, the TPC, the shower counter and one layer of 11 HCAL chambers should be ready. Monte Carlo simulations were also requested.

ALEPH, OFAL and DELPHI were recommended (and ELECTRA and LOGIC not); 'if four experiments were to be approved, L3. would be considered as a candidate for the fourth experiment'.

## Approval by the Research Board

In reality the final approval was given only in June 1993, after publication

1. Milestones: as recommended by the LEPC (see above).

will fulfil their commitments

NBcLaterittumedouttobernoredifficult than the other participants()

of the technical report (see next article - E. Galsathuler in connection with the - and -commissioning of the detector The DG decides that in view of the Opal and necessity for cost reason for L3 rest was Dichtung und Wahrheit. amount of money involved, written to be as close as possible to the surface.) commitments must be done by the . In this memo a general planning was bodies responsible for financing giving shown where Aleph would be ready for (Editm) note-Its: at everyone known in the maximum of guarantee that they live tests by the end of April 1987 and the end Aleph get pit 4 ne CHOICE for CERN to respect its commitments civil engineering planning, sone 4 zone 8 was the fact that, in the LEP - the best.)

This LOI was followed in May 1983 was supposed to be ready 10 months later by a memo from the Collaboration to than zone 8 and therefore the installation choice of the experimental area, 4 or 8, would be too late for the start up of LEP foreseen for Aleph or Delphi. (The choice — (foreseen in early 1989 at that time). The of 2 for 13 and 6 for Opal was dictated — closest to truth is the guess for assembly by the electrical power possibilities for ... in 18 months, as it took about 21, the

that zone 8 should therefore go to Aleph. OF EXPERIMENTAL ZONE by Pleve The argument for the experimental Laserras below-which toroud out to be

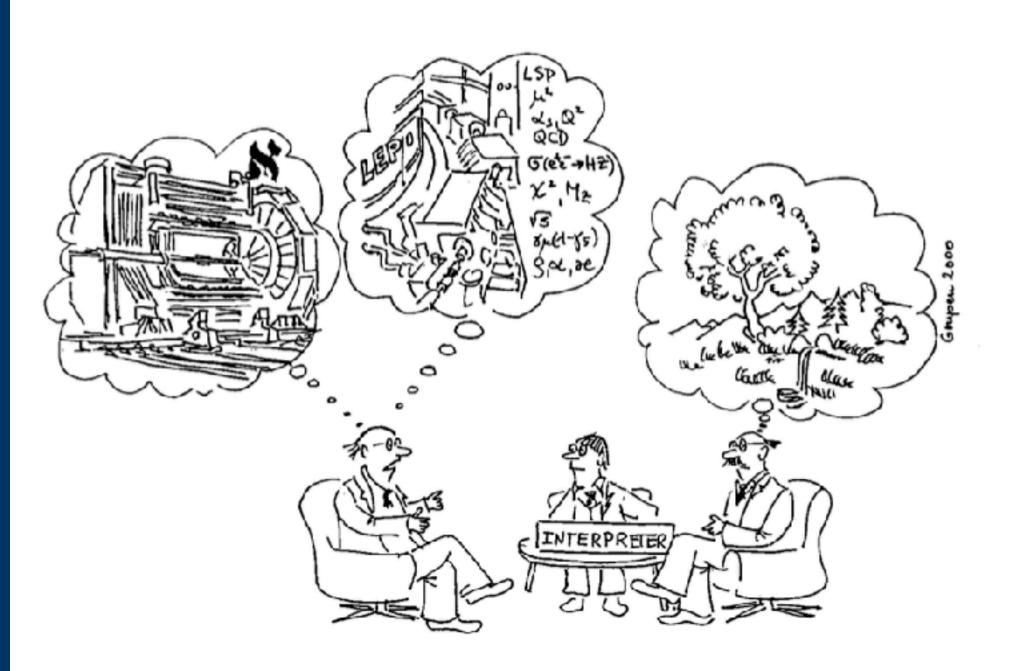




The 'young' Aleph Collaboration in 1986.

'Experiment is the interpreter of nature. Experiments never deceive. It is our judgment that sometimes deceives itself, because it expects results that experiment refuses. We must consult experiment, varying the circumstances, until we have deduced general rules, for experiment alone can furnish reliable rules.'

# ALEPH Weeks Outside CERN



An ALEPH expert explains the Higgs evidence to a layman (Editor's note-CG: after Vladimir Rencin...)

Σελίδες και φωτογραφίες απο την εκδοση "The ALEPH Experience, 25 years of ALEPH Memories", ISBN 9290832339, Editor: R. Settles et al.

# 1989

# ATHENS '89

Anna Vayaki

Way back when we were young, and before shifts and shift leaders became a focal point of Aleph, back in May of 1989, there was an Aleph Week in Athens. Well, actually in a suburb of Athens, called Vouliagmeni, as those of you who participated must recall.

At first there was trepidation, all the puritans in Aleph thought it was really indulging the flesh to come and spend a week by the sea, trying to work, when the first data run had not yet happened. The result proved them wrong, as work was carried out, in a funny schedule to be sure, with a long midday break so people could go swimming on the lovely beaches, and evening sessions to get the work done.

The climax of the meeting was at the Aleph dinner, in a taverna in Vari, when we all whooshed over and sat on the floor in front of the single TV, to watch Jack Steinberger being interviewed for the evening news.

(Editor's note-JL: Jack, of course, had recently been made a Physics Nobel Laureate (along with Leon Lederman and Melvin Schwartz).)

(Editor's note-RS: These words give an impression of calmness, but actually the situation was rather tense: the detector was just starting, the DAQ was not working yet, and several people stayed in CERN getting ready for the pilot run. There were heated words exchanged (too racy to repeat here) between Jack Steinberger and Alain Blondel on the best way to analyse the first data.)



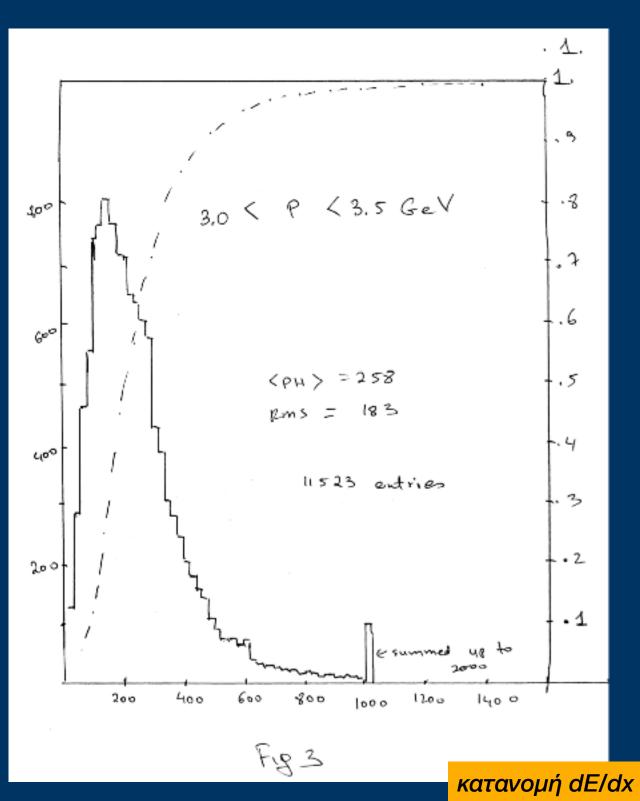
ALEPH 86-39 A. Vayaki 27.3.1986

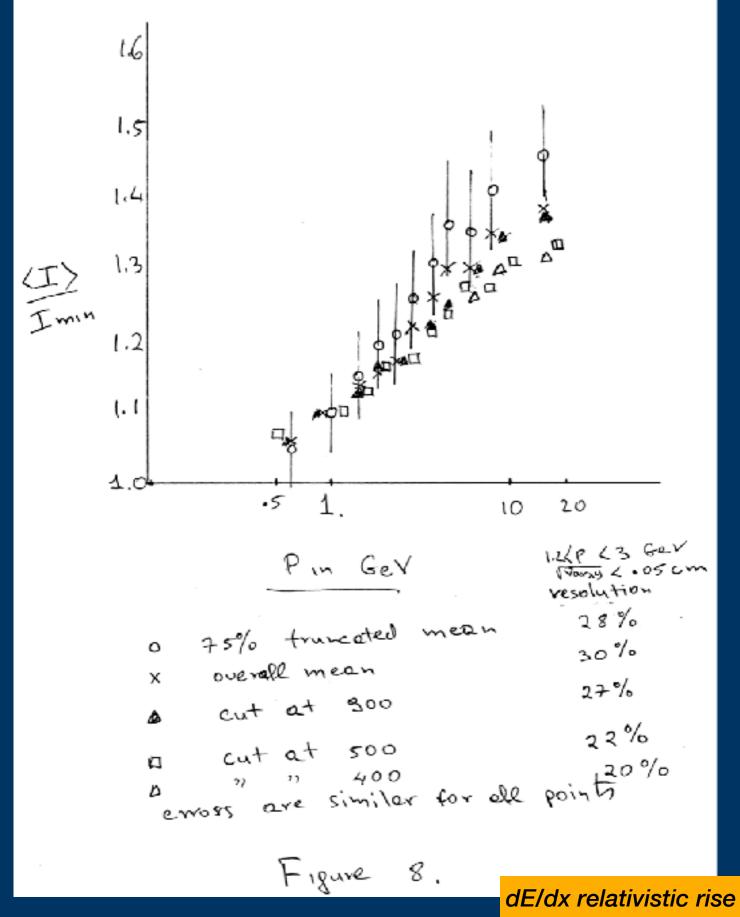
Distr.: TPC

A Measurement of dE/dx in TPC90.11

A. Vayaki

Two cosmic ray runs of about 8000 events each in a magnetic field of ± 7 KGauss are analyzed. 204 pads in the seven rows and 52 of the wires were equipped with Berkeley electronics. From the Landau distribution of the wire pulses an average ionization per track by the truncated mean method, gives the expected ionization rise with momentum. The resolution in estimating the most probable energy loss from the Landau distributions with the truncated mean method, varies between 35% and 27% full width half maximum of the average ionization depending on progressive momentum resolution improvement cuts. The above observations are consistent with the expectations for the proposed ALEPH TPC, within the limited dimensions of the prototype.





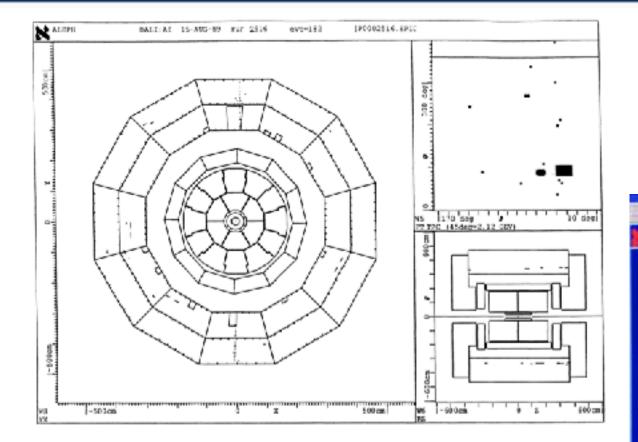
ALEPH 89-148 NOTE 89-9 H. Drevermann et al. 12 September 1989

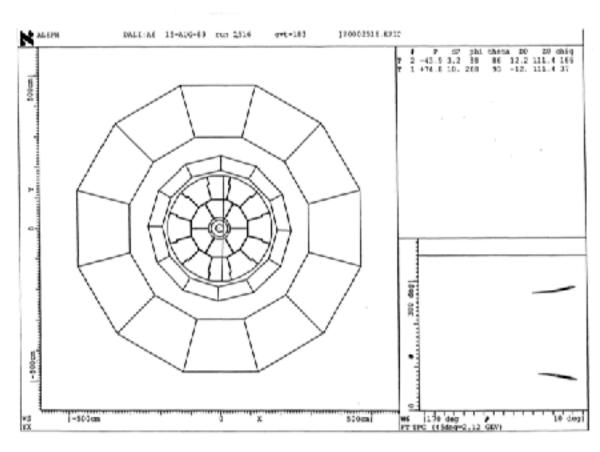
# EVENT SCANNING FOR THE 1989 PILOT RUN

Hans Drevermann, Christoph Grab, Stephen Haywood, Errietta Simopoulou
Paul Colas, Mark Dinsdale, Chris Georgiopoulos, Andrew Halley, John Hilgart, Mike Mermikides,
Frederic Perrier, Stephen Snow, Mosadek Talby, Ingrid TenHave, Werner Wiedenmann

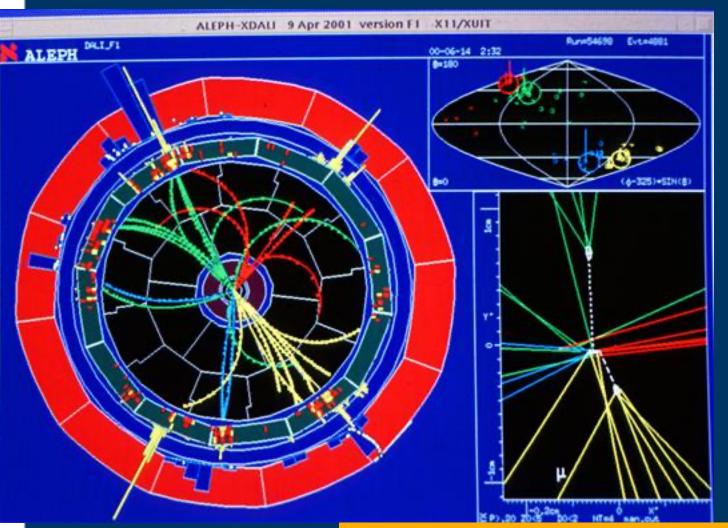
In this note, we summarise what we learnt about event scanning during the 1989 Pilot Run. With this in mind, we give our proposals for scanning events from the Autumn Physics Run.

Flexibility is the name of the game, and therefore we would encourage anyone with suggestions to make them known to us. In particular, we would welcome closer involvement with individual detectors to know what feedback we can provide and to whom we should address our problems or observations.





TPC not synchronised with Heat



γεγονός σύγκρουσης στον ανιχνευτή

Ένα από τα αρχικά γεγονότα στο πείραμα, δείχνει πρόβλημα συγχρονισμού ανάμεσα στους ανιχνευτές





# EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH

CERN-EP/89-132 October 13th,1989

# Determination of the Number of Light Neutrino Species

12 October 1989

## The ALEPH Collaboration

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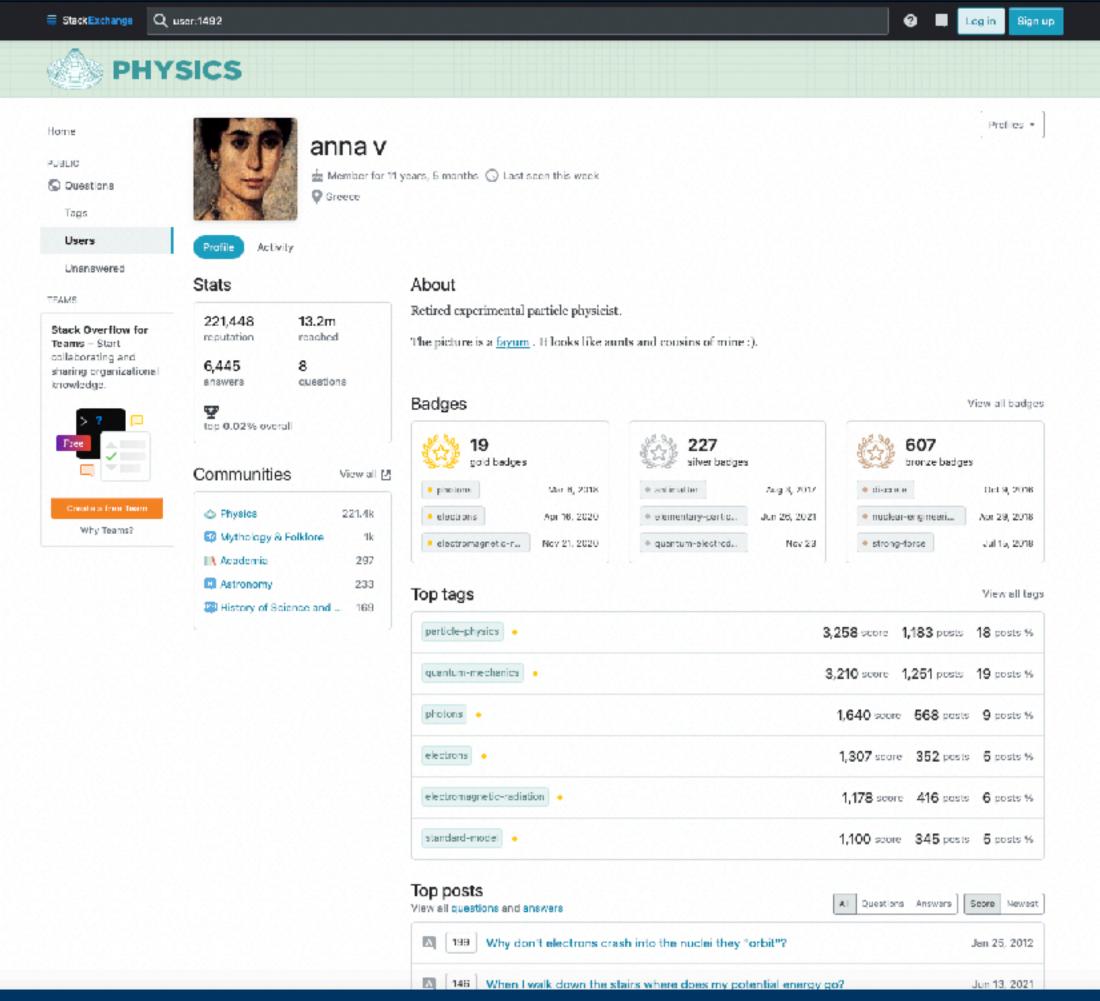
# A POEM

Anna Vayaki

# ALEPH

It had to start with 'A' for a prime mover and great expectations. Slowly and laboriously, built in many labs, it grew almost as if it were a biological organism, needing nursing, tender loving care and long nights of vigils in underground haunted halls, where sometimes bagpipes resounded weirdly, and magnetic fields played havoc with displays. A grand masterpiece, a Stradivarius of detectors, it played the tunes in bytes and bits, morphing to lovely images, obsessed by the search for the melody of melodies that in the end tantalized us all. Caretakers and scholars, we observed the perfect manifestation of nature in microcosm, lured continually onwards by hopes and glimpses of the newest ever theories. Now the song is sung and the last chords die out, Aleph just a memory







## REPORT ON WOMEN IN SCIENTIFIC CAREERS AT CERN

Mary K. Gaillard

LAPP, Annecy, France and CERN, Geneva, Switzerland

# Acknowledgements

This report would not have been possible without the critical comments and suggestions of many friends and colleagues, both during the formulation of the questionnaire and at the final writing. I am indebted to all the women who took the time to discuss, correspond, and respond to the questionnaire, particularly Aurore Savoy-Navarro and Anna Vayaki whose contributions are among those cited in Section 2, and to my colleagues in the CERN Theory Division for their encouragement.

The compilation of responses and the material preparation of the questionnaire and report were done with the collaboration of Bianca Conforto, Bruno Gaillard, Kathie Hardy, Ann Kernan, Kate Morgan, Sheila Navach, Anne-Marie Perrin, Nan Phinney, Hartmute Plothow, Christine Redman, Jacqueline Stern, and Pascal Wastiaux. We appreciate the co-operation of W. Blair and G.J. Bossen of the Personnel Division, who provided statistics on CERN personnel, Cynthia Reay and Janice Roberts of Fermilab for information on their day care project, and Franco Francia of the Staff Association and Suzy Vascotto of the CERN daycare working group for help in preparing the Appendix.

# Αγαπητή Άννα ένα μεγάλο ευχαριστώ!

"I do not teach my students,

I only provide them with the conditions in which they can learn."

Albert Einstein.