

Celebration  
HONORARY DOCTORATE  
AND  
80th BIRTHDAY  
OF  
PETER SEYBOTH

«CROSSROADS»



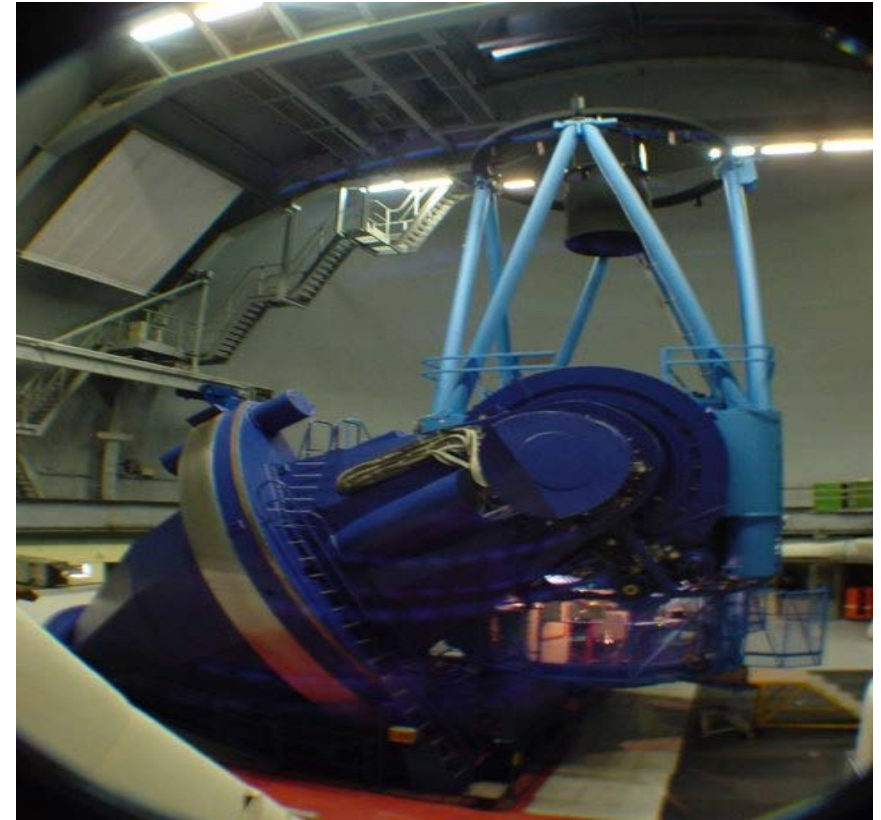
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This was my situation, in the beginning of the 80t, before I met Peter.

## European Southern Observatory

- In 1969 ESO asked CERN for assistance to build a 3.6 m telescope and the ESO/CERN technical project (TP division) was created.
- In 1971 the ESO/CERN started the design of a new 3.6 m telescope.
- The following year ESO placed the contracts for a telescope structure
- and in November 1976 the 3.6 m telescope saw the first light.

## ESO Coudé Auxiliary Telescope (CAT) & 3.6 m telescope



**Being employed by ESO with a 2 years sabbatical leave from CERN, I was send to the «La Silla Observatory» in Chile for the assembly and installation of the "Echelle spectrometer" at the 3.6 m telescope.**

# Breathtaking view of the mid-night sky at La Silla



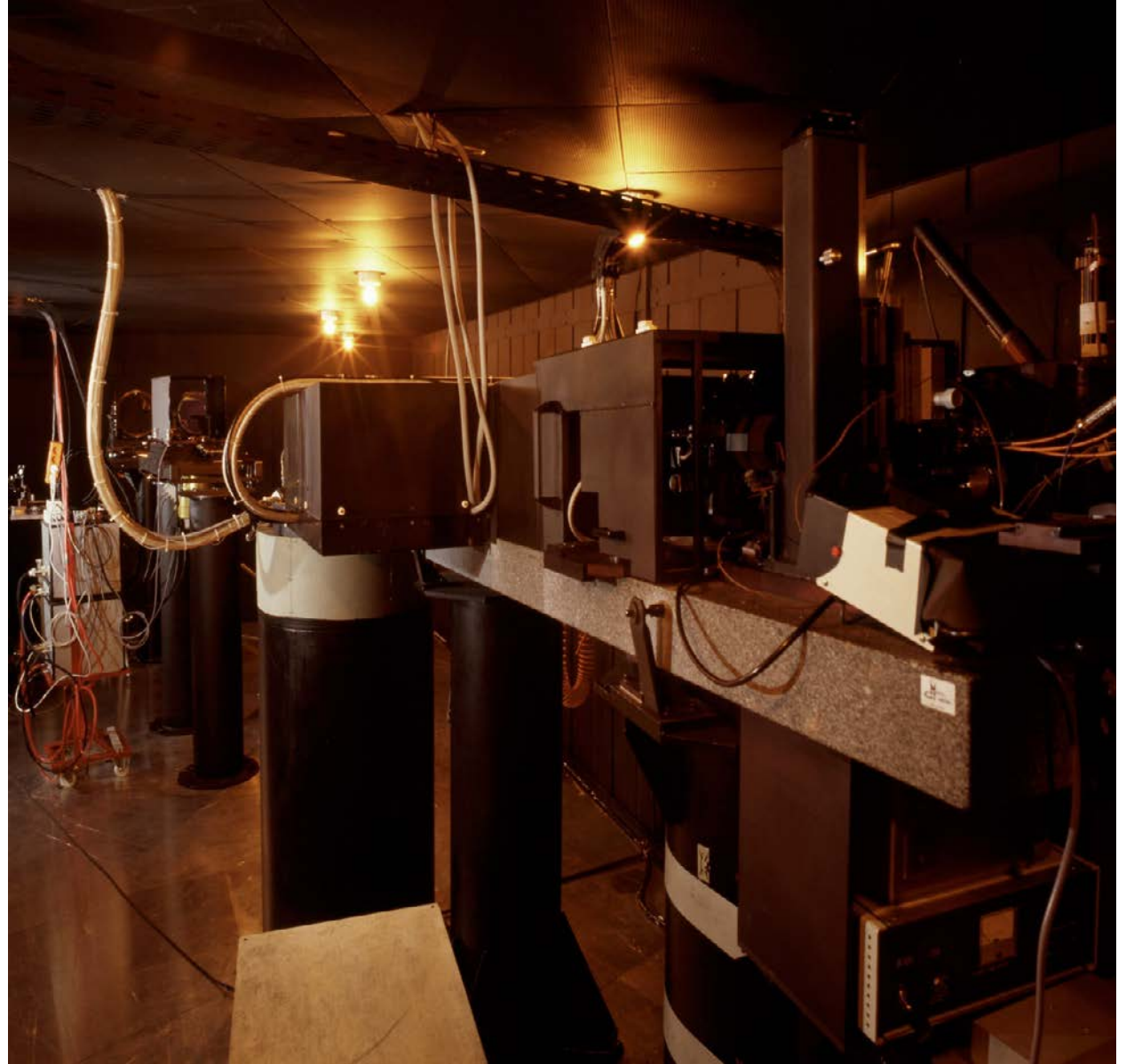
About every second night there was an astronomers  
“mid-night tea”  
meeting with presentations of their research projects.  
We walked back under the breath-taking “darkness”.



# “Echelle spectrometer”

**The installation of this instrument finished for me end 1980.**

**I left the La Silla observatory and planned to stay for a long time at ESO München.**



# The search for an appartement

Arriving in Munich, we were impressed how lively the city is.

With fantastic museums and exhibitions,  
bier gardens, “das Hofbräuhaus” and very good restaurants.

We were looking also to rent an apartment,



During lunchtime, most of the ESO members went to eat at the restaurant of the MPI for Astrophysics, a 5 minutes walk away from the ESO building

## February 1981

At the entrance of the restaurant is a publication board with all sort of announcements about “events”, “exhibitions”, “articles for sale”  
“apartments for rent”

Then my attention focused on an announcement of the  
“Max-Planck-Institut für Physik”.

They were looking for an Electro-Mechanic “midarbeiter” to be based at CERN,  
the job description fitted with my experience.

I called the MPI the same afternoon and a meeting was planned for the next day at  
14.00 at the Föhringer Ring 6



**06 March 1981 at 14:00**

**I was pleased to meet you Peter, your interest in me, as a person, and for my technical experience gave me a confident feeling.**

**We exchanged some phrases in English and German all in a very relaxed atmosphere.**

**I met other persons from the technical division and administration.**

**Then... all the paperwork went very quick and efficient.**

**I remember that at around 4 o'clock I signed my new contract and some other papers.**

**So... one of the following days I drove back to my home in Challex - France**

# A known direction, but new adventures

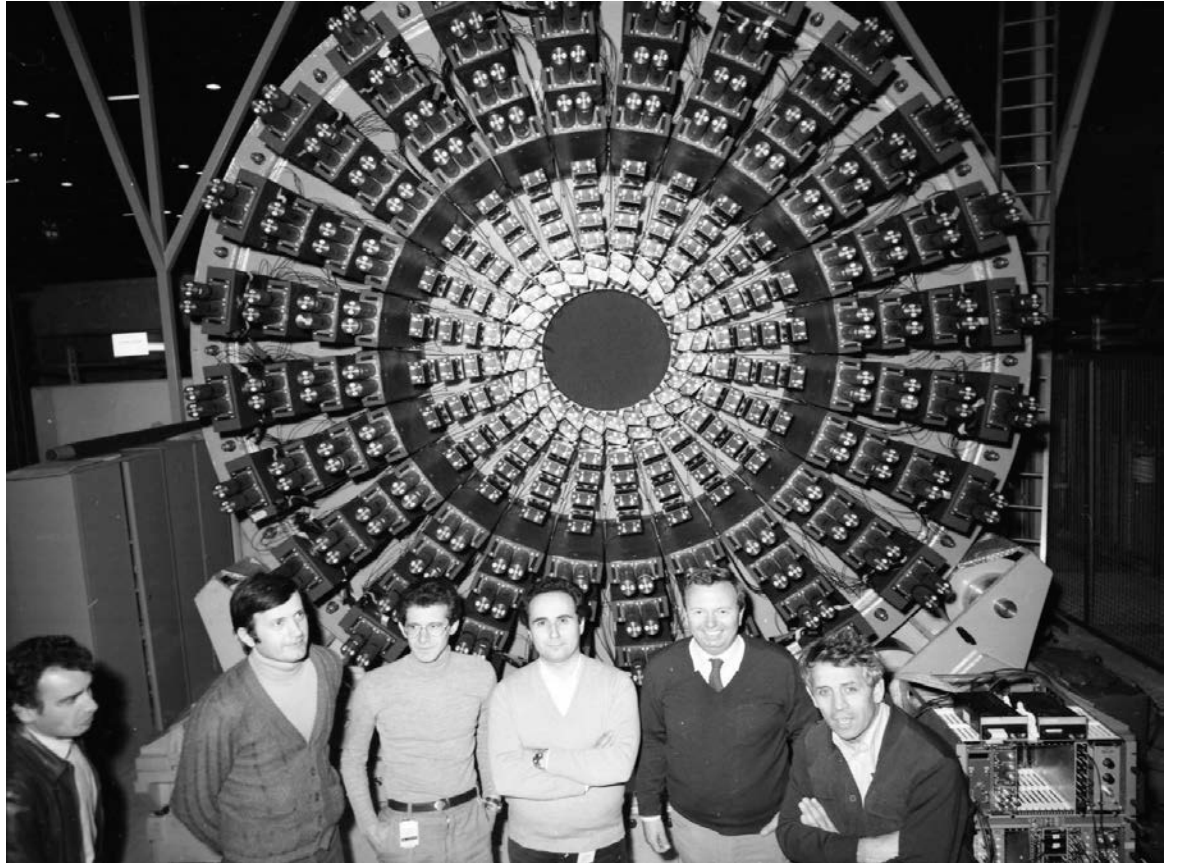


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# NA5 Spokesman P. Seyboth

The first Monday I arrived at building 892 and there I met my new colleagues.

Hermann Fessler welcomed me and showed me the experiment in the experimental area EHN1.



# NA24

**The complete streamer chamber plus calorimeter experiment  
NA5 into NA24.**

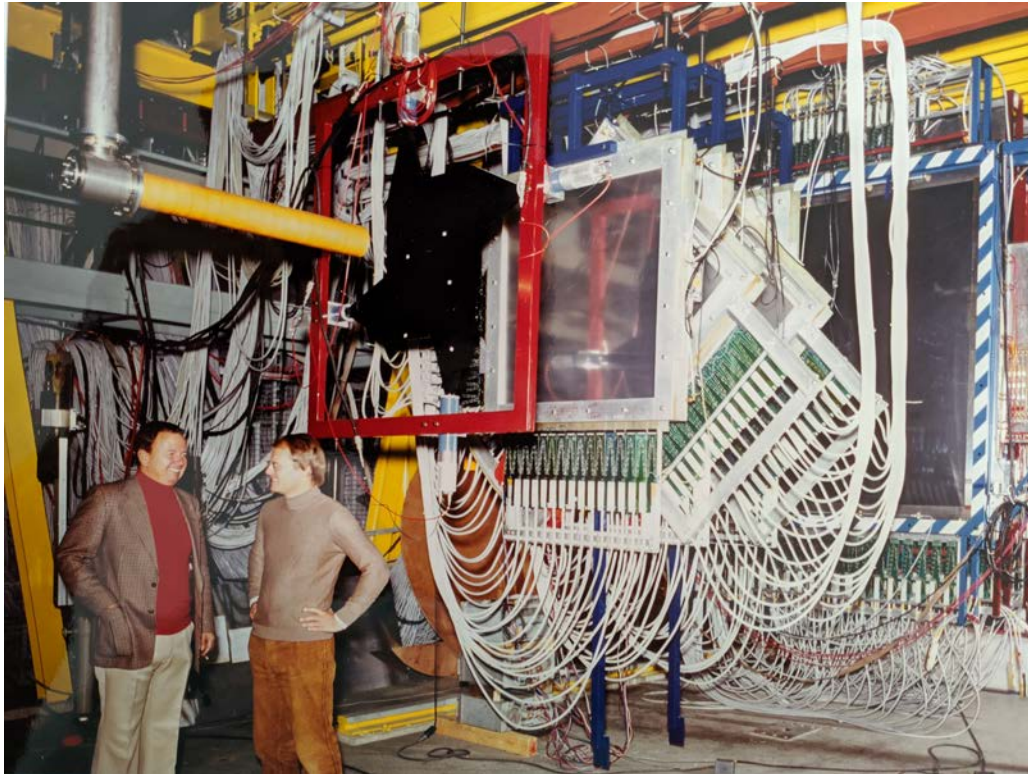
**Often on Mondays, when colleagues came back from München,  
a coffee break with «Leberkäse und Weißbier» was organised.**

**Many parts were made in the adjacent little workshop and electronic  
cards were made and tested in the laboratory-office.**



# NA24

## MULTIWIRE PROPORTIONAL CHAMBERS



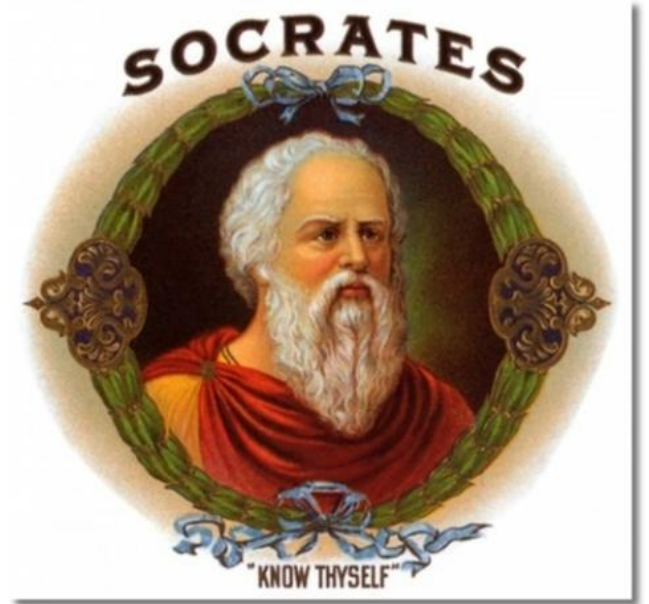
- **Investigation of Deep Inelastic Scattering Processes Involving Large  $p_T$  Direct Photons in the Final State**

# The Great Fusion & Constructions of Pharaonical proportions

Ισχυρά μυαλά συζητούν ιδέες  
Τα μέσα μυαλά συζητούν τα γεγονότα  
Τα αδύναμα μυαλά συζητούν τους ανθρώπους

With credit to Yiota

Strong minds discuss ideas  
Average minds discuss events  
Weak minds discuss people

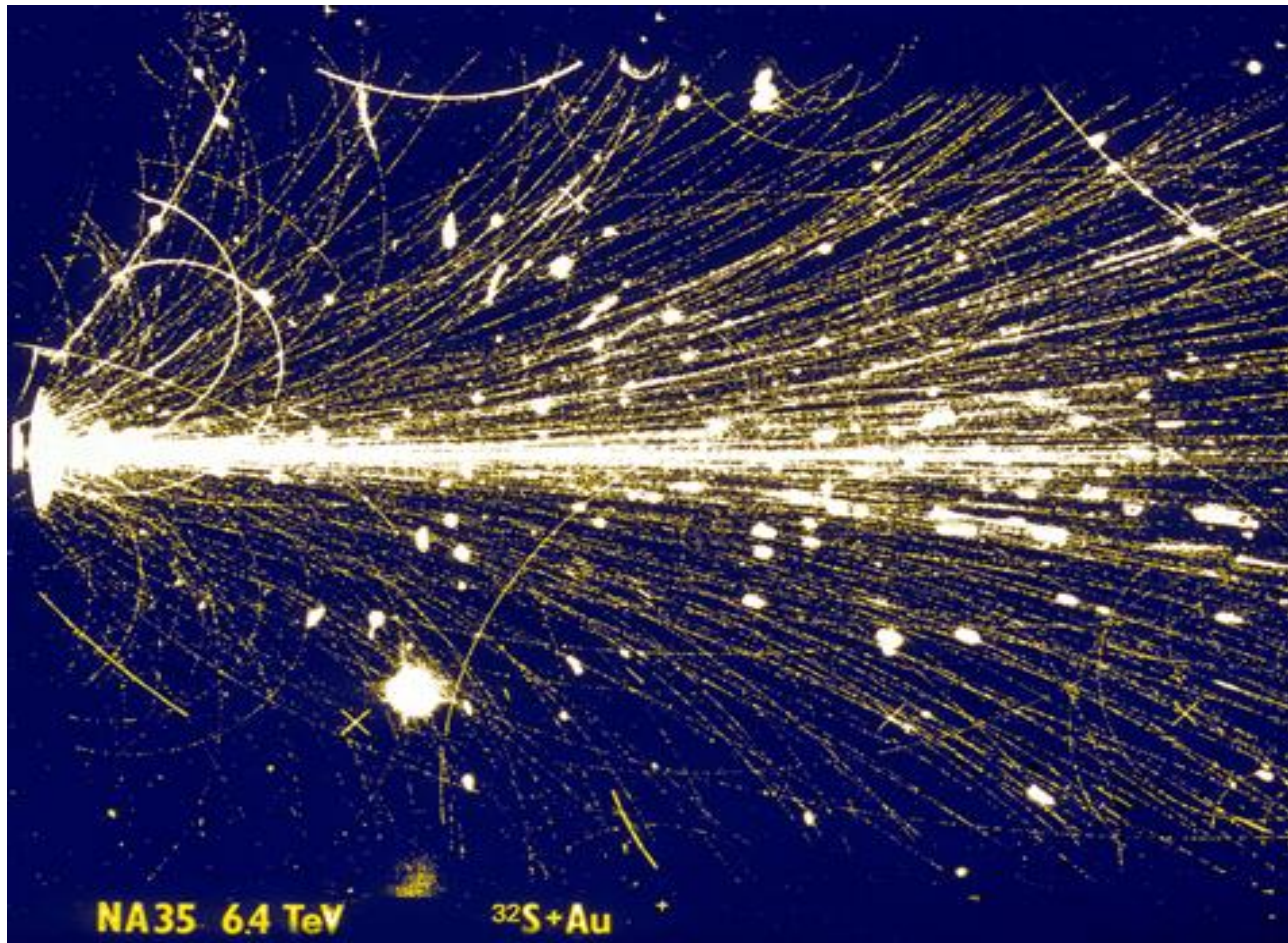


Socrates 469 BC-399 BC



# NA35, one of the many famous streamer chamber pictures of Siegfried.

## And many publications



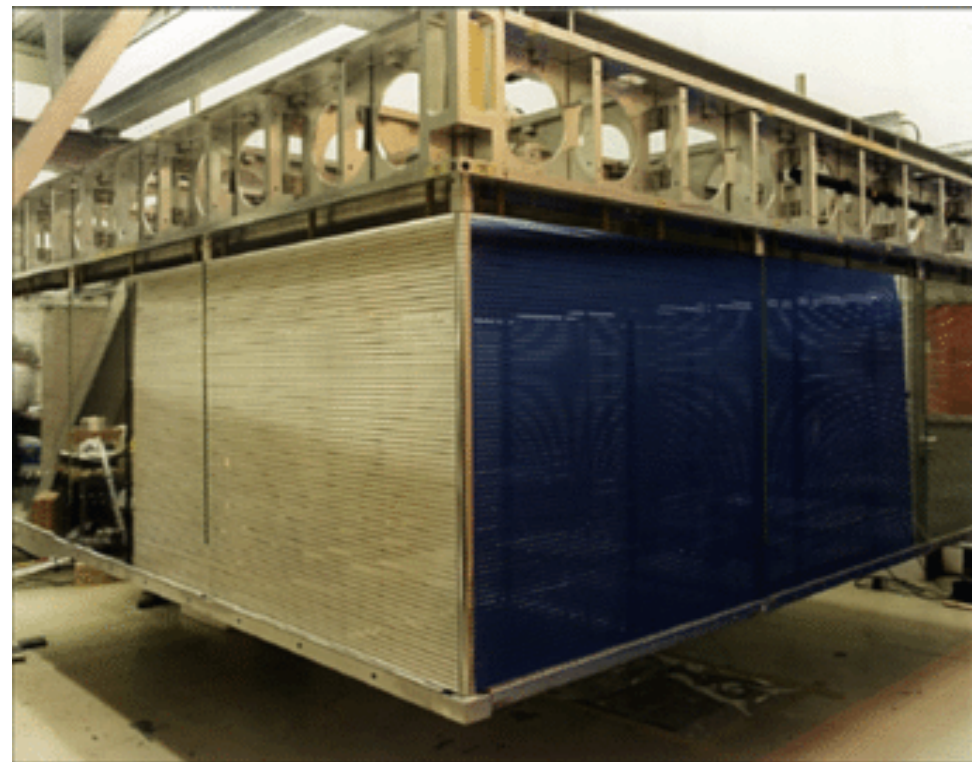
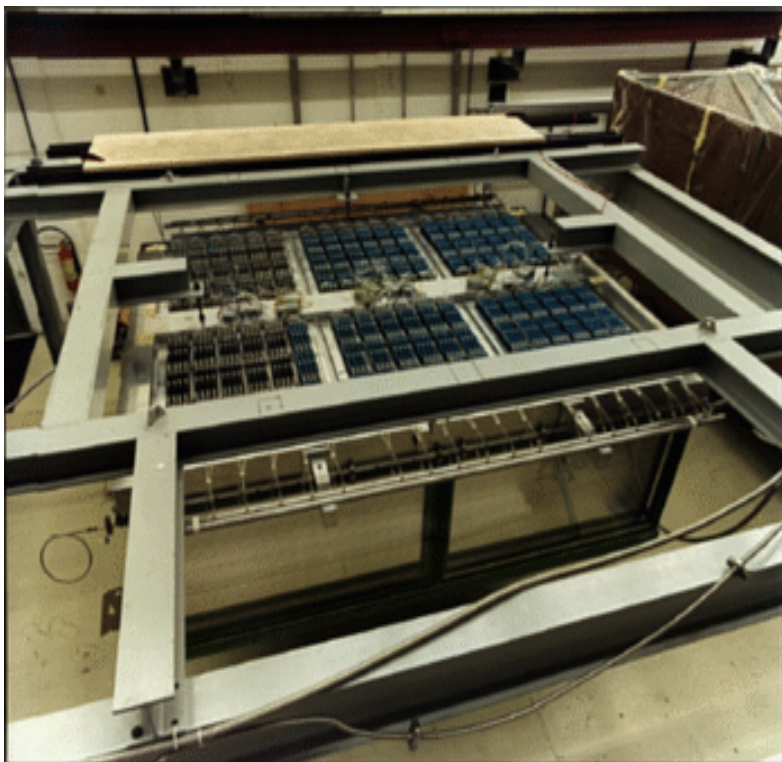
HEP 51 notices trouvées 1 - 25 aller vers la notice: 1

- 1. Charged particle production in proton, deuteron, oxygen and sulphur nucleus collisions at 200-GeV per nucleon**  
NA35 Collaboration (T. Alber *et al.*), 1997, 47 pp.  
Published in *Eur.Phys.J. C2* (1998) 643-659  
IKF-HENPG-6-94  
DOI: [10.1007/s100520050167](https://doi.org/10.1007/s100520050167)  
e-Print: [hep-ex/9711001](https://arxiv.org/abs/hep-ex/9711001) | [PDF](#)  
[References](#) | [BibTeX](#) | [LaTeX\(US\)](#) | [LaTeX\(EU\)](#) | [Harvmac](#) | [EndNote](#)  
[CERN Document Server](#); [ADS Abstract Service](#)  
Data: [INSPIRE](#) | [HepData](#)  
[Notice détaillée](#) - Cité par: 95 notices 50+
- 2. A new Coulomb correction method for Bose-Einstein correlations, based on the pi+pi- correlation measurements**  
NA35 Collaboration (T. Alber *et al.*), 1997, 6 pp.  
Published in *Z.Phys. C73* (1997) 443-448  
DOI: [10.1007/s002880050333](https://doi.org/10.1007/s002880050333)  
[References](#) | [BibTeX](#) | [LaTeX\(US\)](#) | [LaTeX\(EU\)](#) | [Harvmac](#) | [EndNote](#)  
[Notice détaillée](#) - Cité par: 19 notices
- 3. Anti-baryon production in sulphur nucleus collisions at 200-GeV per nucleon**  
NA35 Collaboration (T. Alber (Munich, Max Planck Inst.) *et al.*), 1996, 7 pp.  
Published in *Phys.Lett. B366* (1996) 56-62  
DOI: [10.1016/0370-2693\(95\)01379-2](https://doi.org/10.1016/0370-2693(95)01379-2)  
[References](#) | [BibTeX](#) | [LaTeX\(US\)](#) | [LaTeX\(EU\)](#) | [Harvmac](#) | [EndNote](#)  
[ADS Abstract Service](#)  
Data: [INSPIRE](#) | [HepData](#)  
[Notice détaillée](#) - Cité par: 49 notices
- 4. Two pion Bose-Einstein correlations in nuclear collisions at 200-GeV per nucleon**  
NA35 Collaboration (T. Alber (Munich, Max Planck Inst.) *et al.*), 1995, 12 pp.  
Published in *Z.Phys. C66* (1995) 77-88  
DOI: [10.1007/BF01496582](https://doi.org/10.1007/BF01496582)  
[References](#) | [BibTeX](#) | [LaTeX\(US\)](#) | [LaTeX\(EU\)](#) | [Harvmac](#) | [EndNote](#)  
[Notice détaillée](#) - Cité par: 90 notices 50+
- 5. Recent results from NA35**  
NA35 Collaboration (Marek Gazdzicki (Athens U. & Bari U. & INFN, Bari & LBL, Berkeley & Cracow, INP & Darmstadt, GSI & Frankfurt U. & Freiburg Seattle & Warsaw U. & Warsaw, Inst. Nucl. Studies & Boskovic Inst., Zagreb) *et al.*), 1995.  
Published in *Nucl.Phys. A590* (1995) 197C-213C  
DOI: [10.1016/0375-9474\(95\)00236-T](https://doi.org/10.1016/0375-9474(95)00236-T)  
Prepared for Conference: C95-01-09 Proceedings  
[References](#) | [BibTeX](#) | [LaTeX\(US\)](#) | [LaTeX\(EU\)](#) | [Harvmac](#) | [EndNote](#)  
[Notice détaillée](#) - Cité par: 43 notices
- 6. Transverse momentum dependence of Bose-Einstein correlations in 200-A/GeV/c S + A collisions**  
NA35 Collaboration (Th. Alber (Munich, Max Planck Inst.) *et al.*), Nov 1994, 11 pp.  
Published in *Phys.Rev.Lett. 74* (1995) 1303-1306  
LBL-36062-REV, LBL-36062  
DOI: [10.1103/PhysRevLett.74.1303](https://doi.org/10.1103/PhysRevLett.74.1303)  
[References](#) | [BibTeX](#) | [LaTeX\(US\)](#) | [LaTeX\(EU\)](#) | [Harvmac](#) | [EndNote](#)

Hot Hadronic Matter: Theory and Experiment

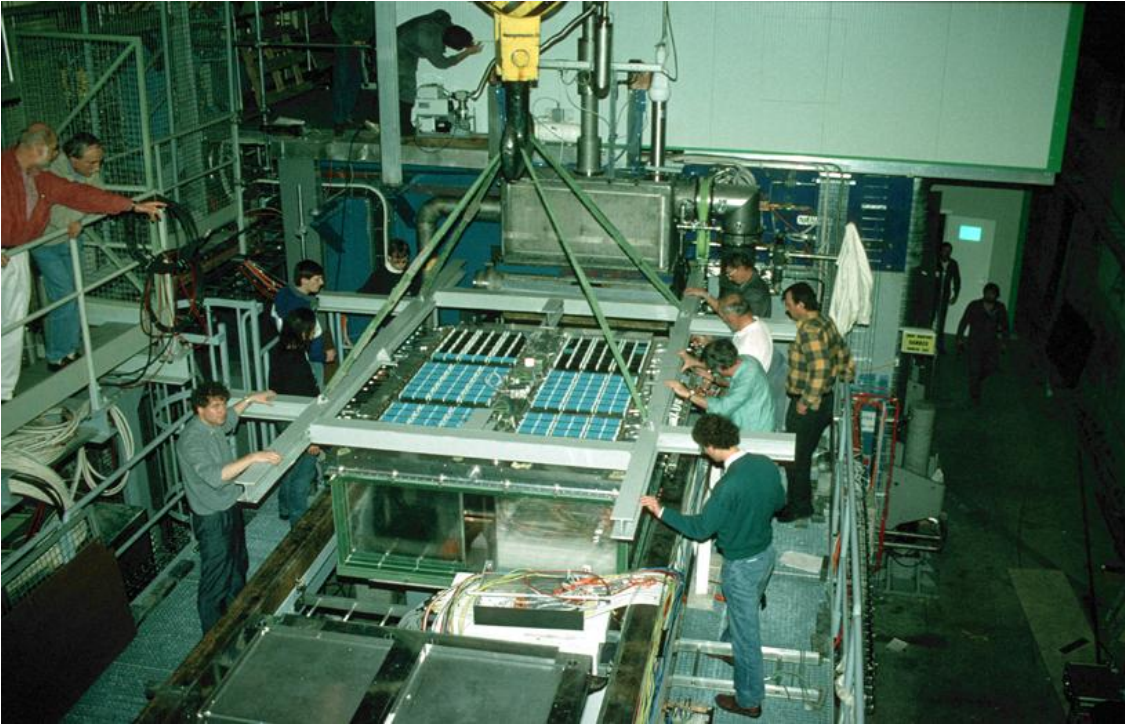


# NA49 TPCs “nearly” ready for data taking

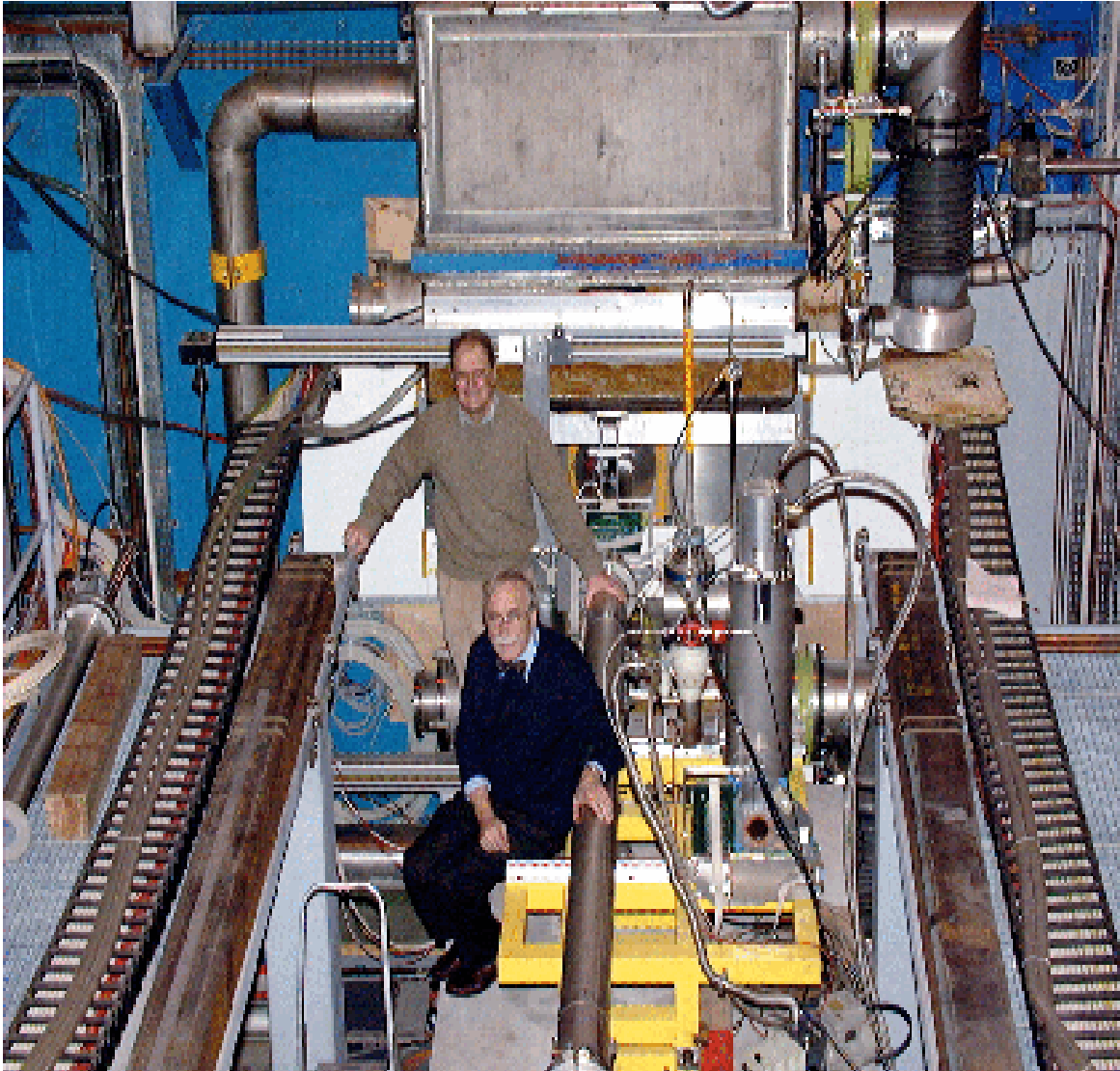




**After good ideas lots of work....  
with Very Professional Manpower**



# The results of the great fusion



Monte Carlo

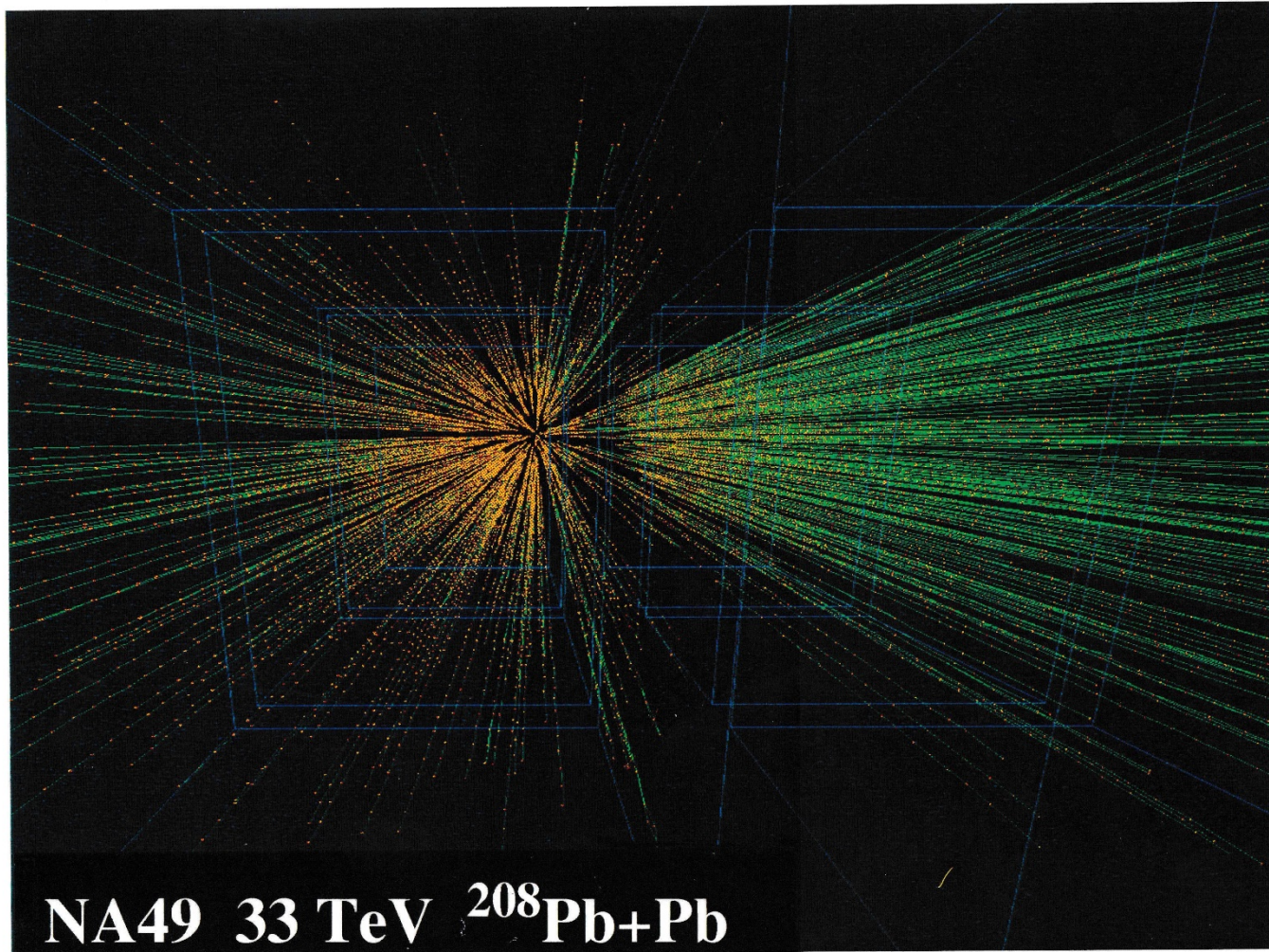
$dE/dx$ .

QCD





# NA49 events and physics

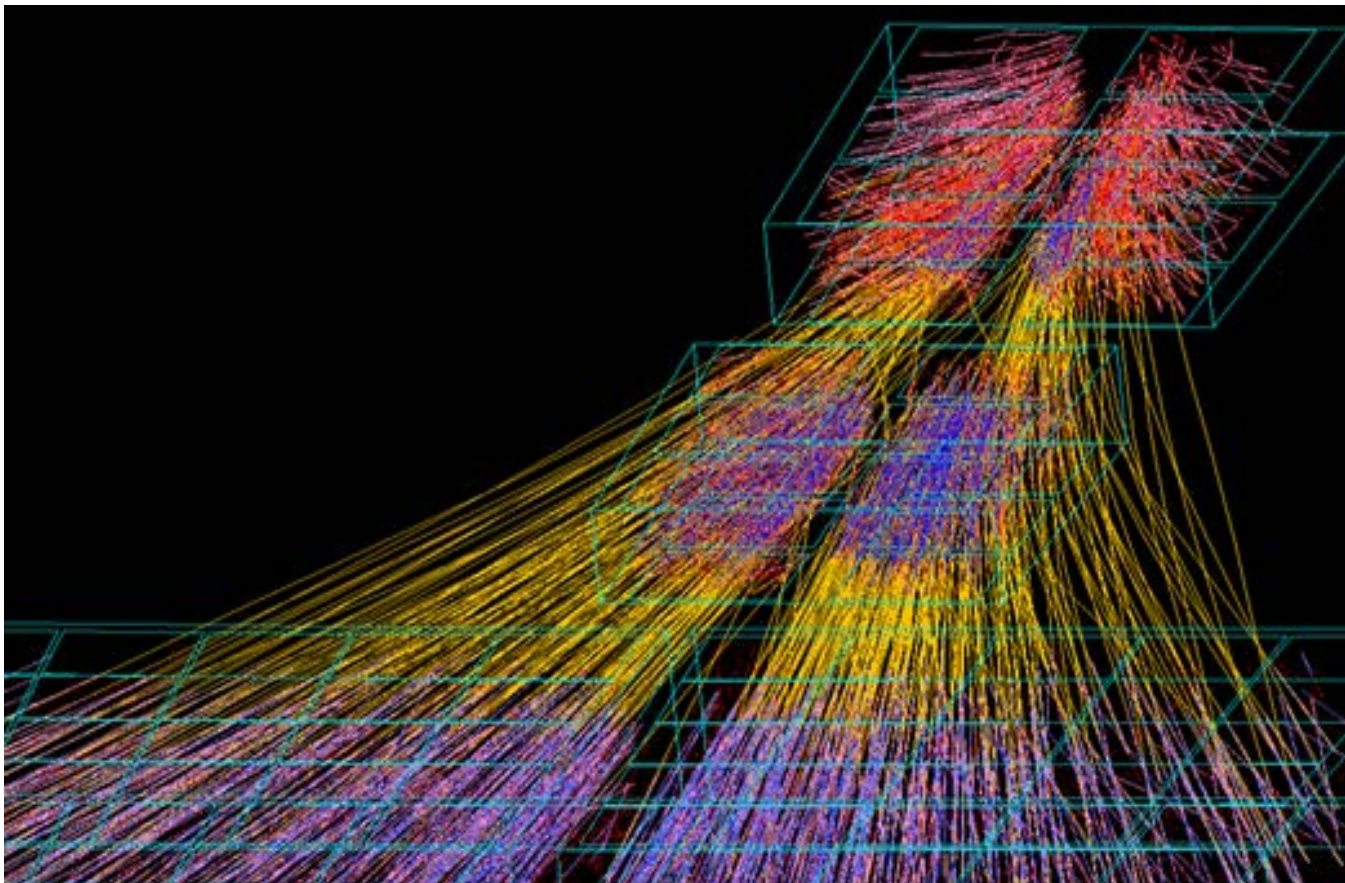


From complex NA49 events  
Peter got painstakingly out the  
analysis, publications and physics

Patient, persistent, systematic  
and careful motivating the young  
students and following all details.



# NA49 events and publications



**MPP-2011-195  $K^*(892)^0$  and  $\bar{K}^*(892)^0$  Production in Central Pb+Pb, Si+Si, C+C and Inelastic p+p Collisions at 158A GeV**, The NA49 Collaboration, T. Anticic et al., V. Eckardt, N. Schmitz, P. Seyboth, Phys.Rev.C 84 (2011) 064909, arxiv:1105.3109 (abs), (pdf), (ps), CERN-PH-EP-NA49-2011-002, inSPIRE entry, (Detailed record).  
[NA49], [Article]

**MPP-2011-192 Energy Dependence of Kaon-to-Proton Ratio Fluctuations in Central Pb + Pb Collisions from  $\sqrt{s_{NN}} = 6.3$  to 17.3 GeV**, The NA49 Collaboration, T. Anticic et al., V. Eckardt, N. Schmitz, P. Seyboth, Phys.Rev.C 83 (2011) 061902, arxiv:1101.3250 (abs), (pdf), (ps), inSPIRE entry, (Detailed record).  
[NA49], [Article]

**MPP-2011-190 Proton - Lambda Correlations in Central Pb+Pb Collisions at  $\sqrt{s_{NN}} = 17.3$  GeV**, The NA49 Collaboration, T. Anticic et al., V. Eckardt, N. Schmitz, P. Seyboth, Phys.Rev.C 83 (2011) 054906, arxiv:1103.3395 (abs), (pdf), (ps), CERN-PH-EP-2011-032, inSPIRE entry, (Detailed record).  
[NA49], [Article]

**MPP-2011-186 Centrality Dependence of Proton and Antiproton Spectra in Pb+Pb Collisions at 40A GeV and 158A GeV Measured at the CERN SPS**, The NA49 Collaboration, T. Anticic et al., V. Eckardt, N. Schmitz, P. Seyboth, Phys.Rev.C 83 (2011) 014901, arxiv:1009.1747 (abs), (pdf), (ps), CERN-PH-EP-2010-030, inSPIRE entry, (Detailed record).  
[NA49], [Article]



# Nice group and Colleagues





# Social life BBQs and Collaboration Dinners





**“We are both still around working with this very nice active group. Many of the first-generations colleagues and with many young students that Peter is also supervising, guiding and reading their abstracts, conference proceedings, following the analysis etc.”**



ALICE electronics



**Thank you Peter !!**



**“Happy Birthday, Many Happy Returns ”**



