

seminars

CERN NUCLEAR PHYSICS SEMINARS

Monday, June 28
11.00
Theory Conference Room

"Experimental aspects in muon capture and weak interaction effects in muonic atoms" by E. Fiorini / University of Milano

Abstract : Some of the experimental aspects of weak interactions as can be seen in muon capture will be discussed.

Recent tests will be reported on the feasibility of experiments on the existence of parity violating neutral currents in muonic atoms. Data on the structure of the pseudoscalar term based on muon capture rates and on the deformation of the Doppler spectrum will also be considered.

Monday, July 5
11.00
Theory Conference Room

"Muon-Induced Fission"

by J. Hadermann / EIR Würenlingen

Abstract : When a muon is captured in an actinide atom two processes are inducing fission. A radiationless Coulomb transition may lead to prompt fission, the 2p-1s energy difference being of the same magnitude as the fission barrier. The second process, namely delayed fission, is more complex, as nuclear muon capture leads to a whole spectrum of excited nuclei. Muon capture is calculated in a simple model, and extracting reaction widths from neutron and photon induced fission data, delayed fission probabilities are compared to experimental results.

CERN TRACK CHAMBER COMMITTEE

Monday, June 28
14.00
Council Chamber

1. Prof. L. Van Hove addressing the TCC.
2. Report on CERN Research Board Meetings.
3. Report on Bubble Chamber Operations.
4. Report on the European Hybrid Spectrometer Project.
5. Final Discussion on Proposal T 247 (CERN/TCC 75-28/Add.1) : Study of dd Interactions at 14 GeV/c in the DBC 200, Strasbourg.
6. Final Discussion on Proposal T 239 (CERN/TCC 76-6) : A High Statistics High Resolution Measurement of the Total and Partial $\bar{p}p$ Cross-Sections Between 1900 and 1965 MeV Total C.M. Energy, CERN-Frascati-Padova-Rome-Trieste.
7. Discussion on a future Bubble Chamber Users Committee.
8. A. Rousset : A Review of Results obtained in Heavy Liquid Bubble Chamber Experiments at CERN.
9. R. Armenteros : A Review of Results obtained in Light Liquid Bubble Chamber Experiments at CERN.

EP SEMINAR

Monday, June 28
11.00
Large Conference Room
(Lab.13 - 2.005)

"The High Density Proportional Chamber"

by A.P. Jeavons

Abstract : The addition of a high density drift space to a proportional chamber provides new possibilities for the position detection of non-ionizing radiation. A positron camera with a spatial resolution of 1 mm is now in operation as a tool for solid state physics research : the measurement of the angular correlation of positron annihilation radiation. The good spatial resolution over a relatively large area gives an important experimental advance. High energy physics applications under consideration include a position sensitive detector for GeV photons and a transition radiation detector. Other important applications are thermal neutron and radioisotope imaging.

Two dimensional proportional chamber readout using digital techniques will also be described : a spatial resolution of 10 μ m from 3 mm channels has been obtained. Mention will also be made of on-line data handling methods using the Omega network.

EP SEMINAR

Monday, July 5
11.00
Auditorium

"Production of Massive Dimuon Pairs at FNAL"

by Pierre A. Piroue / Princeton University

Abstract : An experiment is described in which the production of muon pairs is observed in proton nucleus collisions. The muon pairs are detected with an asymmetric double arm spectrometer. The muons observed have effective masses between 7 and 11 GeV/c². One arm consists of a magnetic focussing spectrometer of small solid angle. The other arm (Multi-hole Spectrometer) consists of ten scintillation detectors buried in the earth and covering a large solid angle.

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CERN PARTICLE PHYSICS SEMINARS

Tuesday, June 29
16.00
Auditorium

"Hadrons from virtual photons and muons"

by C. Heusch / University of California, Santa Cruz

Tuesday, July 6
16.00
Auditorium

"Possible Measurement of Velocity Distribution Inside a Polarized Nucleus and a Polarized Hadron"

by C.N. Yang / Stony Brook and CERN

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PROTONSYNCHROTRON COMMITTEE

Monday, July 5
14.30
Auditorium

Open Session

1. Introductory remarks by L. Van Hove.
2. A status report on experiment S132 - A search for heavy masses by a symmetric bispectrometer - by the Annecy (LAPP)-Brussels (IISN)-Freiburg i. Br. collaboration.
3. A status report on experiment S151 - A study of $\bar{p}p$ X-rays - by the Basel-Karlsruhe-Stockholm collaboration, presented by L. Tauscher (CERN/PSC-76/1).
4. A status report on experiment S137 - $K^+n \rightarrow K^0p$ at 6 GeV by the Saclay (CEN) group, presented by A. De Lesquen.

Closed Session

Tuesday, July 6
09.00 - EP Conference Room

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SPECIAL NUCLEAR PHYSICS SEMINAR

Tuesday, July 6
11.00
Theory Conference Room

"Parity Violation in p - p Scattering"

by R.E. Mischke / Argonne National Lab. and Los Alamos Scientific Laboratory

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PRESENTATIONS TECHNIQUES

Mercredi 30 juin
de 09h00 à 12h00 et
de 14h00 à 16h00
Salle de conférence Magasins
(Bât. 73 - 2e étage - R.027)
Langues : allemand, anglais,
français

La maison EHRENSPERGER (CH) présente les matériels suivants:
Amphenol : Connecteurs MS pour l'industrie et pour circuits intégrés - Binder:connecteurs divers - Sullins: connecteurs pour circuits intégrés - General connector : connecteurs à usage militaire et audio - Kings : connecteurs coaxiaux BNC, UHF, etc. - ITT Pomona : accessoires de laboratoire - Honeywell : commutateurs pour la construction des machines et d'appareils.

Jeudi 1 juillet
de 10h00 à 12h00
Parking PTT

La maison TRACO (CH), représentant la maison SACE (I), expose une gamme de disjoncteurs basse tension, notamment les nouvelles séries MODUL (très compact, modulaire) et LIMITOR (compact pour courant de service de 100 à 800 A sous une tension nominale de 660 V 50/60 Hz, pouvoir de coupure jusqu'à 100 KA efficace).

Langues : allemand, français

M. Diraison / FI / 4585