

SEMINARS

SEMINAIRES

Monday 5 July

AS SEMINAR

at 10.00 hrs (English)

at 14.00 hrs and 16.00 hrs (French)

CN Auditorium, bldg 31/3-005

BHT – Budget Holder's Toolkit – Version 3

by The BHT Development Team / CERN-AS

The Budget Holder's Toolkit is an important part of the AIS project. BHT Version 2 is already widely used throughout CERN for the follow up and tracking of expenditure throughout the organization. Version 3 has been developed based upon continual feedback from our user community and more importantly the recent introduction of the destination code for enhanced expenditure analysis.

This interactive demonstration will cover :

- Requirements for Version 3
- Reasons for the Destination (alias activity code / CGRB)
- Enhanced GUI Look and Feel (Graphics toolbars & outlining)
- Extended Functionality (e.g. support for Industrial Contracts)
- Version 3 expert mode

This talk is intended for registered users of BHT only.

The presentation will be given three times. Once in English at 10.00 hrs and in French at 14.00 hrs and 16.00 hrs

Note : A more comprehensive course concerning the interpretation of financial data using BHT is under development in conjunction with Finance Division & Technical Training services.

Monday 5 July

PPE SEMINAR

at 16.30 hrs – Auditorium

Status report from E791 and prospects for physics with a D-meson beam

by Michael D. SOKOLOFF / University of Cincinnati

Fermilab experiment E791 recorded over 20 billion $\pi^- N$ interactions in the last fixed-target running period. We have reconstructed more than 10% of the data, and project a total reconstructed charm sample on the order of 200,000. We expect to measure charm production characteristics, semileptonic and hadronic decays with the world's best precision. We are also studying $D^0 - \bar{D}^0$ mixing and searching for flavor changing neutral currents. I will show some preliminary signals related to these analyses. I will also discuss the physics prospects for a future experiment where we can collect a significantly larger charm sample and in which we can also measure the inelastic cross-sections of D-mesons incident on nuclear interaction targets

0.6 cm – 1.6 cm beyond the production target. It should be possible to reconstruct a thousand such signal events with good signal-to-background. By varying the separation of the D production and interaction targets, one can extract various differential and particular cross-sections. By varying the material of the interaction target, one can measure the A-dependence as well.

Wednesday 7 July

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Search for low-frequency gravitational waves with spacecraft

by B. BERTOTTI / University of Pavia, Italy

Friday 9 July

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room

Semileptonic tau decays

by Erwin MIRKES / University of Karlsruhe

Semileptonic decays of polarized tau leptons are investigated. The most general angular distribution of two- and three-meson final states ($\tau \rightarrow \pi\pi\nu, K\pi\nu, \dots, \pi\pi\nu, K\pi\nu, KK\nu, \eta\pi\nu, \dots$) is discussed. The structure of the hadronic matrix elements will be derived. Emphasis is put on tau decays in e^+e^- experiments where the neutrino escapes detection and the tau rest frame cannot be reconstructed. Using the decay mode $\tau \rightarrow 3\pi\nu$, it is demonstrated that a significant improvement of the tau polarization measurement is achieved if the full angular distribution is incorporated. The theoretical uncertainties in the 3π channel from the model dependence and from the misidentifications of kaons as pions are discussed in detail.

Monday 12 July

PPE SEMINAR

at 16.30 hrs – Auditorium

B physics with the CDF experiment at Fermilab

by Vaia PAPADIMITRIOU / FNAL (CDF Collaboration)

Recent measurements of B hadron and b-quark production cross sections in $\bar{p}p$ collisions at $\sqrt{s}=1.8$ TeV, using exclusive and inclusive B decay modes, will be presented and compared with theoretical predictions. A precision measurement of the average B hadron lifetime and a preliminary measurement of the charged to neutral B meson lifetime ratio will be also presented. Observation and mass measurement of the B_s and results on the search for the Λ_b will be reported as well.