

SEMINARS SEMINAIRES

Tuesday 20 August*

COMPUTING SEMINAR

at 16.00hrs – CN Auditorium, bldg 31/3-005

High Throughput Computing

Miron Livny / Computer Sciences Department, University of Wisconsin Madison

For many scientists, scientific progress is strongly linked to computing throughput. In other words, most scientists are concerned with how many floating point operation per week or per month they can extract from their computing environment rather than the number of such operations it can provide them per second or minute. We refer to environments that can deliver large amounts of cycles for very long periods of time as High Throughput Computing (HTC) environments.

For more than a decade, we have been developing and deploying, HTC software tools - the Condor system. Condor enables scientists to simultaneously and transparently exploit the capacity of workstations they are not even aware, exist. The talk will outline the architecture of Condor and the interaction between its different layers. The principles that have been guiding our work and the lessons we have learned from deploying Condor in real-life environments will be presented.

Organiser : G.Folger / CN

* PLEASE NOTE UNUSUAL DAY

Wednesday 21 August

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Introduction to quantized Hall fluids and spin liquids by Martin GREITER / Stanford University

In this lecture, I will first review the basic physical mechanism of fractionally quantized Hall fluids, with particular emphasis on the effective decomposition of electrons into smaller constituent particles of fractional charge. I will then introduce quantum spin liquids, and illustrate how the same mechanism leads to spin-charge separation – that is, the effective decomposition of electrons into spinons and holons, which carry only spin and charge, respectively. No prior knowledge of quantized Hall or spin liquids is required.

Friday 23 August

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room

q-q̄ contributions to the small-x gluon anomalous dimension

by Marcello CIAFALONI / INFN, Firenze

I discuss the use of k-factorization to derive resummation formulas at small Bjorken x for the non-Abelian q-q̄ contributions to both the next-to-leading BFKL kernel and to heavy flavour hadroproduction. The main point is that combining this result with those of Fadin et al. on the virtual terms allows the computation in closed form of the complete q-q̄ contribution to the gluon anomalous dimension in the Q⁰-scheme. Resummation effects turn out to be im-

portant for heavy flavour production, but are instead small in the anomalous dimension eigenvalue, because of a cancellation between Abelian and non-Abelian contributions.

Mardi 27 août

PRÉSENTATION TECHNIQUE

à 09.00 hrs – Démo bus, parking bât. 252

Matériel de série basse tension

par A. Rohner, Siemens Suisse SA, Renens

Langue: français, anglais, allemand

Information : L.Abel FI-A/79561

Tuesday 27 August

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium*, bldg 500

New determination of RB in Aleph

by J. STEINBERGER / CERN

* Tea & coffee will be served at 16.00hrs.

Wednesday 28 August

PS SEMINAR

at 10.00 hrs* – PS Auditorium, bldg 6, 2-024

High Current RF Linac Design with Beam in Thermal Equilibrium

by Martin Reiser / University of Maryland College Park, Maryland, U.S.A.

* PLEASE NOTE UNUSUAL TIME

Wednesday 28 August

COMPUTING SEMINAR

at 16.00hrs – Council Chamber*, Bldg. 503

Sketches of Padova: Impressions from the first LHC Computing Workshop

Manuel Delfino / Universitat Autònoma de Barcelona

Organiser : G. Folger / CN

* PLEASE NOTE THE SPECIAL PLACE

Jeudi 29 août

PRÉSENTATION TECHNIQUE

à 09.30 hrs – Bât. 165-R-006

Démonstration du système de réparation METCAL

par C. Imhof / HILPERT electronics LTP SA

Langue : français, anglais, allemand, espagnol

Information : L.Abel/ FI-A /79561

Thursday 29 August

SL SEMINAR

at 16.00 hrs* – SL Auditorium, Prévessin, bldg. 864

Luminosity monitors and their applications

by Patrick Puzo / CERN

* Coffee and tea will be served at 15.30 hrs in front of the auditorium.