

SEMINARS

SEMINAIRES

Wednesday 10 August

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Common features of (dilaton) walls and (dilaton) black holes

by Mirjam CVETIC / University of Pennsylvania

Developments in unifying treatment of ordinary vacuum domain walls as well as recently discovered dilaton domain walls (pertinent to string theory) are presented. Such walls exist in general between minima of non-equal cosmological constants, and they fall into three classes :

- (i) *non-extreme (expanding bubbles with two insides);*
- (ii) *extreme (planar, static supersymmetric configurations); and*
- (iii) *ultra-extreme (bubbles of false vacuum decay).*

Space-times associated with such walls exhibit non-trivial causal structure, closely related to one of the corresponding black holes, however, without singularities. Interestingly, extreme (supersymmetric) dilaton domain walls have flat string frame metric, i.e. the string does not see the wall. New charged spherically symmetric solutions with the dilaton as well as the modulus field are also discussed.

EDUCATION

SERVICES

EDUCATIFS

SUMMER STUDENTS LECTURES

This week

Mon. 9 August	09.00	L. Di Lella	Current problems in neutrino physics (1)
	10.15	B. Autin/D. Manglunki	Accelerators : past, present and future (5)
	11.15	H. Haas	The Isolde Programme
Tue. 10 August	09.00	L. Di Lella	Current problems in neutrino physics (2)
	10.15	B. Autin/D. Manglunki	Accelerators : past, present and future (6)
	11.15	E. Auge	CP Violation (1)
Wed. 11 August	09.00	L. Di Lella	Current problems in neutrino physics (3)
	10.15	J. Gareyte	The Large Hadron Collider (LHC) at CERN
	11.15	E. Auge	CP Violation (2)
Thur. 12 August	09.00	L. Di Lella	Current problems in neutrino physics (4)
	10.15	---	-----
	11.15	---	-----
Fri. 13 August	09.00	R. Landua	Physics highlights from LEAR
	10.15	W. Quint	One Antiproton at 4 degrees above absolute zero
	11.15	---	-----

Next week

Mon. 16 August	09.00	A. Milsztajn	Deep inelastic lepton scattering (1)
	10.15	F. Zwirner	Introduction to supersymmetry
	11.15	---	-----
Tue. 17 August	09.00	A. Milsztajn	Deep inelastic lepton scattering (2)
	10.15	F. Richard	Physics at Linear $e^+ e^-$ colliders
	11.15	---	Student session