

Summer School and Workshop on the Standard Model and Beyond

September 8 - 17, 2012
Corfú, Greece

Sunday 9th September 2012

School		
09.00-10.00	G. Degrassi	Theory of Electroweak Interactions
10.00-11.00	G. Degrassi	Theory of Electroweak Interactions
11.00-11.30	Coffee Break	
11.30-12.30	G. Altarelli	QCD
12.30-13.30	G. Altarelli	QCD
13.30-16.00	Lunch Break	
16.00-17.00	G. Perez	Flavor Physics in the LHC era
17.00-18.00	G. Perez	Flavor Physics in the LHC era
18.00-18.30	Coffee Break	
<i>Workshop</i>		
18.30-19.10	F. Maltoni	Understanding b-initiated processes at the LHC
19.10-19.50	Discussion Session	
19.50-20.30	G. Branco	TBA

Monday 10th September 2012

School		
09.00-10.00	G. Perez	Flavor Physics in the LHC era
10.00-11.00	G. Altarelli	QCD
11.00-11.30	Coffee Break	
11.30-12.30	G. Degrassi	Theory of Electroweak Interactions
12.30-13.30	M. Pepe-Altarelli	LHCb
13.30-16.00	Lunch Break	

Monday 10th September 2012 (cont'd)

School		
16.00-17.00	A. Santamaria	Neutrino Physics
17.00-18.00	A. Santamaria	Neutrino Physics
18.00-18.30	Coffee Break	
<i>Workshop</i>		
18.30-19.10	G. Zanderighi	Multi scale improved NLO
19.10-19.50	Discussion Session	
19.50-20.30	R. Pittau	Quantum Field Theory in Four Dimensions

Tuesday 11th September 2012

School		
09.00-10.00	D. de Florian	Higgs Physics
10.00-11.00	D. de Florian	Higgs Physics
11.00-11.30	Coffee Break	
<i>Workshop</i>		
11.30-12.10	M. Rebelo	TBA
12.10-12.50	Discussion Session	
12.50-13.30	M. Nemevsek	Neutrino mass and the LHC
Free Afternoon		

Wednesday 12th September 2012

School		
09.00-10.00	G. Ross	SUSY
10.00-11.00	G. Ross	MSSM
11.00-11.30	Coffee Break	
11.30-12.30	E. Dudas	Extra dimensions and Braneworlds
12.30-13.30	E. Dudas	Extra dimensions and Braneworlds
13.30-16.00	Lunch Break	
<i>Workshop</i>		
16.00-16.40	T. Hahn	New Features in FormCalc 7
16.40-17.00	C. Hartmann	Neutrino mixing and the Frobenius group T13
17.00-17.40	A. Hebecker	Shift symmetries for the Higgs and the Inflaton
17.40-18.10	Coffee Break	
18.10-18.50	Discussion Session	
18.50-19.30	A. Santamaria	TBA

Thursday 13th September 2012

School		
09.00-10.00	G. Ross	Beyond the SM and the LHC
10.00-11.00	G. Ross	Beyond the SM and the LHC
11.00-11.30	Coffee Break	
11.30-12.30	V. Mukhanov	Introduction to Cosmology
12.30-13.30	V. Mukhanov	Introduction to Cosmology
13.30-16.00	Lunch Break	
<i>Workshop</i>		
16.00-16.40	P. Osland	Constraining the 2HDM and identifying benchmarks
16.40-17.00	D. Emmanuel-Costa	Geometrical CP violation and non-renormalisable Higgs potentials
17.00-17.40	G. Belanger	TBA
17.40-18.10	Coffee Break	
18.10-18.50	Discussion Session	
18.50-19.30	R. Harlander	Supersymmetric Higgs production at the LHC
19.30-20.10	J. Varela	Recent results of the CMS experiment at CERN

Friday 14th September 2012

School		
09.00-10.00	A. de Roeck	Higgs Physics
10.00-11.00	A. de Roeck	CLIC
11.00-11.30	Coffee Break	
11.30-12.30	G. Tonelli	CMS
12.30-13.30	E. Tsesmelis	LHC Upgrade
13.30-16.00	Lunch Break	
16.00-17.00	K. Buesser	The International Linear Collider ILC
<i>Workshop</i>		
17.00-17.20	S. Porto	Physical processes in strong external fields at linear colliders
17.20-18.00	Discussion Session	
18.00-18.40	D. Ghilencea	The fine tuning cost of the likelihood in SUSY models and phenomenological implications
18.40-19.10	Coffee Break	

Saturday 15th September 2012

School		
09.00-10.00	P. Nilles	Supergravity
10.00-11.00	E. Kiritsis	String Theory and applications
11.00-11.30	Coffee Break	
11.30-12.30	P. Wells	Latest highlights from the ATLAS experiment
12.30-13.30	K. Papadodimas	Gauge/Gravity Duality
13.30-16.00	Lunch Break	
16.00-17.00	K. Papadodimas	Gauge/Gravity Duality
<i>Workshop</i>		
17.00-17.20	C. Tsarouchas	ATLAS experiment concerning B Physics
17.20-18.00	L. Fayard	Results on Higgs search with the ATLAS experiment
18.00-18.30	Coffee Break	
18.30-19.10	Discussion Session	
19.10-19.30	A. Spiezia	Search for new physics with same-sign isolated dilepton events in CMS
19.30-20.10	C. Papadopoulos	TBA

Sunday 16th September 2012

School		
09.00-10.00	E. Kiritsis	String Theory and applications
10.00-11.00	L. Covi	Astroparticle Physics and Cosmology
11.00-11.30	Coffee Break	
<i>Workshop</i>		
11.30-12.10	M. Krawczyk	A 125 GeV Higgs boson in 2HDM
12.10-12.30	A. Iyer	Lepton Masses and Flavour Violation in Randall Sundrum Model
12.30-12.50	F. Herrmann	Exploring fundamental questions of nucleon structure through Generalized Parton Distributions
12.50-13.30	M. Oleckowski	Higgs boson mass in MSSM with inverted hierarchy of sfermion masses
13.30-16.00	Lunch Break	
16.00-16.40	Discussion Session	
16.40-17.20	M. Felcini	Experimental BSM searches
17.20-17.50	Coffee Break	
<i>School</i>		
17.50-18.50	L. Covi	Astroparticle Physics and Cosmology
18.50-19.50	P. Nilles	Supergravity