

Final Programme of ICTP-NCP School on LHC Physics

(17 – 28 November 2014)

TIME (PST)	Mon (17 th Nov)	Tue (18 th Nov)	Wed (19 th Nov)	Thu (20 th Nov)	Fri (21 th Nov)	Sat (22 th Nov)
09:30 – 10:20	Welcome	Hafeez Hoorani	A.D. Roeck-3 (V)	A.D. Roeck-4 (V)	R. Khalid	H. M. Saadeh S. Rzayeva
10:20 – 11:10	Pak-CERN Project Hafeez Hoorani	A.D. Roeck-2 (V)	Asif Siddique	Fayyazuddin	Salam Session Fayyazuddin & Hafeez Hoorani	G. Ferrari M. Ahmad
11:10 – 11:40	Tea					
11:40 – 12:30	A.D. Roeck-1 (V)	M.I. Asghar-1	M. Gul	T. Camporesi (V)	A. Tawfik-2	M. Shoalb
12:30 – 14:00	Lunch					
14:00 – 14:50	A. Ahmad-1	G. Rolandi (V)	M. Ahmad	M.I. Asghar	P. Meridiani (V)	T. Muller-1
14:50 – 15:40	J. Ellis-1 (V)	Foreigner's Visit	J. Ellis-2 (V)	A. Tawfik-1	R. Tenchini-1 (V)	P. Azzurri (V)
15:40 – 16:10	Tea	Faisal Mosque	Tea			
16:10 – 17:00	Discussion Panel	Shakkar Perian	T. Boccali (V)	R. Poeschl-1 (V)	R. Poeschl-2 (V)	Gustavo Alonso Free slot
Evening		Lok Virsa	Shopping / Super - Centaurus			Conference Dinner

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TIME (PST)	Sun (23 rd Nov)	Mon (24 th Nov)	Tue (25 th Nov)	Wed (26 th Nov)	Thu (27 th Nov)	Fri (28 th Nov)
09:30 – 10:20	Visit / Excursion	T. Muller-2	T. Muller-3	ROOT	CMSSW	Exam Prep Time
10:20 – 11:10		M. I. Malik	Zaib-un-Nisa	ROOT	CMSSW	Exam
		T. Rashid	Ana Elena			
11:40 – 12:30		M. N. Anwar	C++	ROOT	CMSSW	Panel Discussion / feedback
	Lake View Park	Lunch				
14:00 – 14:50	Centaurus	C++	C++ Lab	CMSSW	CMSSW	Closing
14:50 – 15:40	Shakkar Perian	C++	C++ Lab	DG CERN	CMSSW	
	Lok Virsa	Tea				
16:10 – 17:00		R. Tenchini-2 (V)	Python	CMSSW	CMSSW	
Evening		Musical Night	Shopping / Jinnah Super - Super			

Detail of Speakers and their Topics

No	Name	Lecture Title
Invited Speakers via Video Link		
01	John Ellis	<ul style="list-style-type: none"> Perspectives in Particle Physics The Higgs Boson and Beyond (02 Lectures)
02	Albert De Roeck	<ul style="list-style-type: none"> Lecture on the discovery and status of the Higgs particle Searches for new Physics at the LHC: Exotica Searches for new Physics at the LHC: Dark Matter and Supersymmetry The Future of High Energy Collider Physics
03	Roman Poeschl	<ul style="list-style-type: none"> Electroweak precision physics at a future Linear Collider at the TeV scale (02 Lectures)
04	Tiziano Camporesi	<ul style="list-style-type: none"> Introduction to CMS
05	Roberto Tenchini	<ul style="list-style-type: none"> Electroweak physics with W and Z bosons Physics of the top quark in the Higgs era
06	Gigi Rolandi	<ul style="list-style-type: none"> Muon Identification in CMS
07	Paolo Meridiani	<ul style="list-style-type: none"> E gamma in CMS
08	Paolo Azzurri	<ul style="list-style-type: none"> Jet/MET reconstruction in CMS
09	Tommaso Boccali	<ul style="list-style-type: none"> From Raw data to Physics publication in CMS
Invited Foreign Speakers at Venue (NCP), Islamabad		
01	Thomas Muller	<ul style="list-style-type: none"> Physics of Top Quark (03 Lectures)
02	Abdel Nasser TAWFIK	<ul style="list-style-type: none"> A Short Introduction to QCD QCD-like models and Heavy-Ion Collisions
03	Sevda Rzayeva	<ul style="list-style-type: none"> The quantization of electric charge in gauge theories and Higgs field
04	Hanan Sa'adeh	<ul style="list-style-type: none"> PIXE-RBS Beamline in the University of Jordan Van de Graaff Accelerator: Development and Applications
05	Gabriel Ferrari	<ul style="list-style-type: none"> Character of repulsive vectorial interactions induced by 1/N terms as an improvement of the EPNJL model
06	Ana Elena Dumitriu	<ul style="list-style-type: none"> LHCb Physics
07	Muhammad Ahmad	<ul style="list-style-type: none"> Measurement of B+c and B+ production Cross Section at 7 TeV pp collisions at CMS Measurement of the properties of a Higgs boson in the four-lepton final state
08	Muhammad Naeem Anwar	<ul style="list-style-type: none"> The Hunt for a Tetra Quark
09	Muhammad Gul	<ul style="list-style-type: none"> Exotic Higgs searches in CMS
10	Muhammad Shoaib	<ul style="list-style-type: none"> Measurement of Single top quark production in association with Z boson at $\sqrt{s} = 8$ TeV using CMS data.
11	Zaib un Nisa	<ul style="list-style-type: none"> High Quality Electron Gun Study for High Power Klystron
Local Speakers		
01	Prof. Fayyazuddin	<ul style="list-style-type: none"> Electroweak Unification and Salam Lecture

02	Prof. Hafeez Hoorani	• CERN-Pakistan Cooperation
03	Ashfaq Ahmad	• Particle Physics (2 Lectures)
04	Muhammad Irfan Asghar	• Detector Physics (2 Lectures)
05	Rizwan Khalid	• BSM Phenomenology
06	Imran Malik Awan	• GEM Detector Simulation
07	Teeba Rashid	• Top Physics at ATLAS
Exercises Instructors		
01	Muhammad Ahmad	• CMS Software
02	Taimoor Khurshid	• CMS Software
03	Asif Siddique	• ROOT
04	Adeel-ur-Rehman	• C++ / Python