Schedule of 6th School on LHC Physics (21 – 31 August 2017)

TIME (PST)	Mon (21st Aug)	Tue (22nd Aug)	Wed (23rd Aug)	Thu (24th Aug)	Fri (25th Aug)	Sat (26th Aug)
09:00 – 09:50	**Registration** 8:30 – 9:40	Standard Model -2 (Ashfaq Ahmad)	Statistical Tools3 Chi-squared (Louis Lyons)	BSM-1 (Freya Blekman)	**Start at 9:20** A Public Lecture	
09:50 – 10:40	Opening Session	Particle Identification and Reconstruction at the LHC - 1 (Rachid Mazini)	Particle Identification and Reconstruction at the LHC - 2 (Rachid Mazini)	Introduction to MC and Generators at LHC (Rachid Mazini)	What is Probibility? The Bayes and Frequentist Approaches (Louis Lyons)	
10:40 – 11:10	Tea					**Visit /Excursion for Local and Foreigner participants**
11:10 – 12:00	Physics at LHC (Hafeez Hoorani)	Statistical Tools1 Introduction (Louis Lyons)	Standard Model -3 (Ashfaq Ahmad)	Statistical Tools5 Searches for New Physics (Louis Lyons)	BSM-2 (Freya Blekman)	
12:00 – 12:50	Higgs Physics at LHC (Rachid Mazini)	QCD – 1 (Faisal Akram)	Statistical Tools4 likelihood (Louis Lyons)	Raw-data-to-phy-1 (Norraphat Srimanobhas)	Raw-data-to-phy-2 (Norraphat Srimanobhas)	
12:50 – 14:00	Lunch					For Foreigners:
14:00 – 14:50	Standard Model -1 (Ashfaq Ahmad)	Statistical Tools2 Learning to Love Covariance matrix (Louis Lyons)	QCD – 2 (Faisal Akram)	QCD – 1 (Bilal Masud)	QCD – 2 (Bilal Masud)	• Lunch at PC Bhurban • Light hiking after lunch
14:50 – 15:40	Detectors in HEP - 1 (Irfan Asghar)	Exotica - 1 (Sadia Khalil)	Detectors in HEP – 2 (Irfan Asghar)	[Faculty Visit to Quaid-i-Azam, University]	Intro to C++ (Adeel-ur-Rehman)	Intro to python (Adeel-ur-Rehman)	
15:40 – 16:00	Tea					
16:00 – 17:00	CERN Exhibition Auditorium Lobby (Muhammad Ahmad)	Intro to C++ (Adeel-ur-Rehman)	Exotica – 2 (Sadia Khalil)	Discussion Session	Discussion Session	
Evening		**Shopping** Centaurus	**Islamabad Visit** Monument + Lok virsa	Conference Dinner / Cultural Program	**Islamabad Visit** Lake View park + Saidpur village	[Faculty Visit to NUST followed by Islamabad Visit]	

1

TIME (PST)	Sun (27th Aug)	Mon (28th Aug)	Tue (29th Aug)	Wed (30th Aug)	Thu (31st Aug)
09:00 – 09:50	Islamabad visit Faisal Mosque, (Daman-i-Koh) & Lunch at Munal	BSM-3 (Freya Blekman)	ROOT (Taimoor Khurshid)	Beauty physics at the LHC (Ian Shipsy)	Students Presentations 09:30 – 10:40
09:50 – 10:40		Introduction to SUSY - 1 (Rizwan Khalid)	ROOT (Taimoor Khurshid)	CMSSW (Lab) (Muhammad Ahmad)	
10:40 – 11:10		Tea			
11:10 – 12:00		Raw-data-to-phy-3 (Norraphat Srimanobhas)	ROOT(Lab) (Taimoor Khurshid) / Faculty Visit to Quaid-i-Azam, University	CMSSW (Lab) (Muhammad Ahmad)	Students Presentations 10:30 – 12:00
12:00 – 12:50		Intro to Linux (Adeel-ur-Rehman)	CMSSW (Lab) (Muhammad Ahmad) / Faculty Visit to Quaid-i-Azam, University	CMSSW (Lab) (Muhammad Ahmad)	
12:50 – 14:00		Lunch			
14:00 – 14:50		Raw-data-to-phy-4 **Data Exercise Demo** (Norraphat Srimanobhas)	CMSSW (Lab) (Muhammad Ahmad)	A public talk From Quarks to the Cosmos (Ian Shipsy)	Concluding Session
14:50 – 15:40		ROOT (Taimoor Khurshid)	Introduction to SUSY - 2 (Rizwan Khalid)		
15:40 – 16:00		Tea			
16:00 – 17:00		Discussion	The future of particle physics (Ian Shipsey)	Project Preparation	
Evening			**Shopping** Super Market F-6	**Shopping/visit** Lok Virsa, Pak Monoment, Centaurus Mall	