

CERN's CMS VIRTUAL VISIT – PAKISTAN

(Muhammad Adeel – B.E NEDUET)

22nd Oct, 2014, The CERN arranged a virtual visit to CMS to Pakistan. The event took Place at 11:00 AM, Geneva time at Civil Audio Visual Hall, NEDUET, Pakistan.

The prime initiative of the event was taken, to introduce the physicists and engineers at Pakistan with the gigantic Compact Muon Solenoid, its working and its extreme engineering design. The secondary objective was to promote studies of Particle Physics and High Energy Physics in Pakistan.

I, Muhammad Adeel, contacted CERN official, Ms. Marzena Lapka in September,2014 in regards with this event. With the co-operation of Marzena, Mr.Zolatan and Neomi Beni, the Event received a huge achievement in meeting its objectives. Our audiences were, mainly, undergraduate and postgraduate Physics and engineering students, Physics professors and some fellows from the research organization, SUPARCO.

We started with some of the fundamental videos on CERN and LHC. Then, Mr. Saleh Muhammad joined us at the virtual seminar from CERN Control systems. He took us all along from the controls to the protection scheme at CMS. He gave a brief introduction of the computation system at CERN and explained data acquisition mechanism in real time operations.

Muhammad Shoaib was our co-host there, who explained underground CMS setup to the audience. He showed some of the major components of CMS and their functionalities, including the CSC and RPC. He further, cheered up the audience by pointing out Pakistan's Flag on the CMS body and RPC, representing its construction in Pakistan.

Then finally to the question answer session, the audience welcomed Mr.Zoltan Szillasi with some tough questions about the Higgs Particle and its super symmetry, the balance of Matter and Anti-matter, the Quantum entanglement, and then finally to the gravitational wave theory and its relation to Graviton.

The event was a break through above all the issues at NEDUET. I am anxiously waiting for the other detectors to come by just like the CMS.