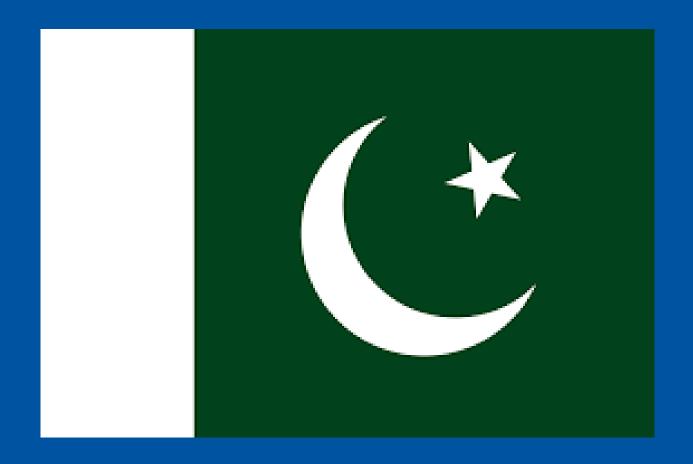
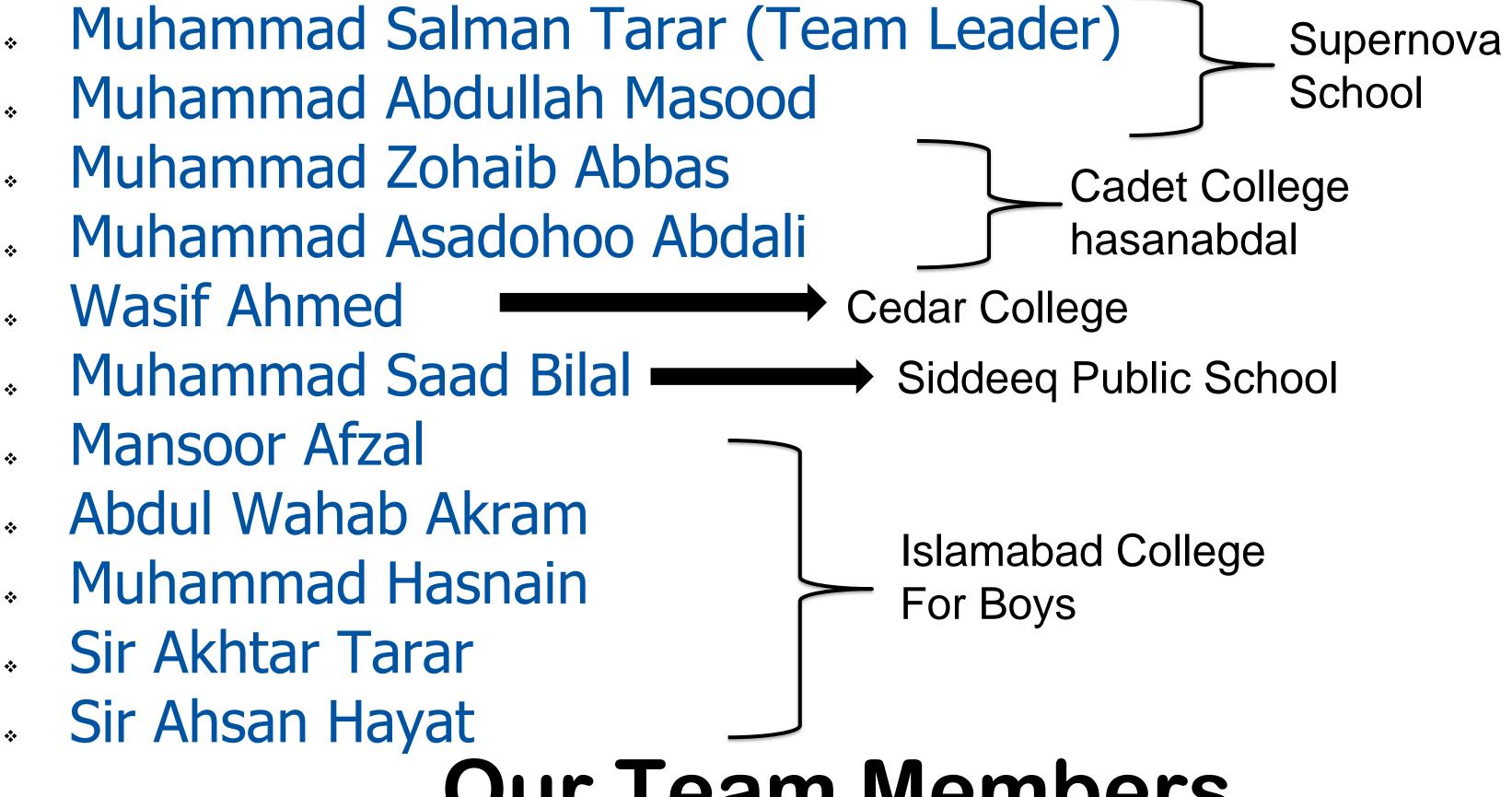


Beamline for Schools Team Particular Perspective









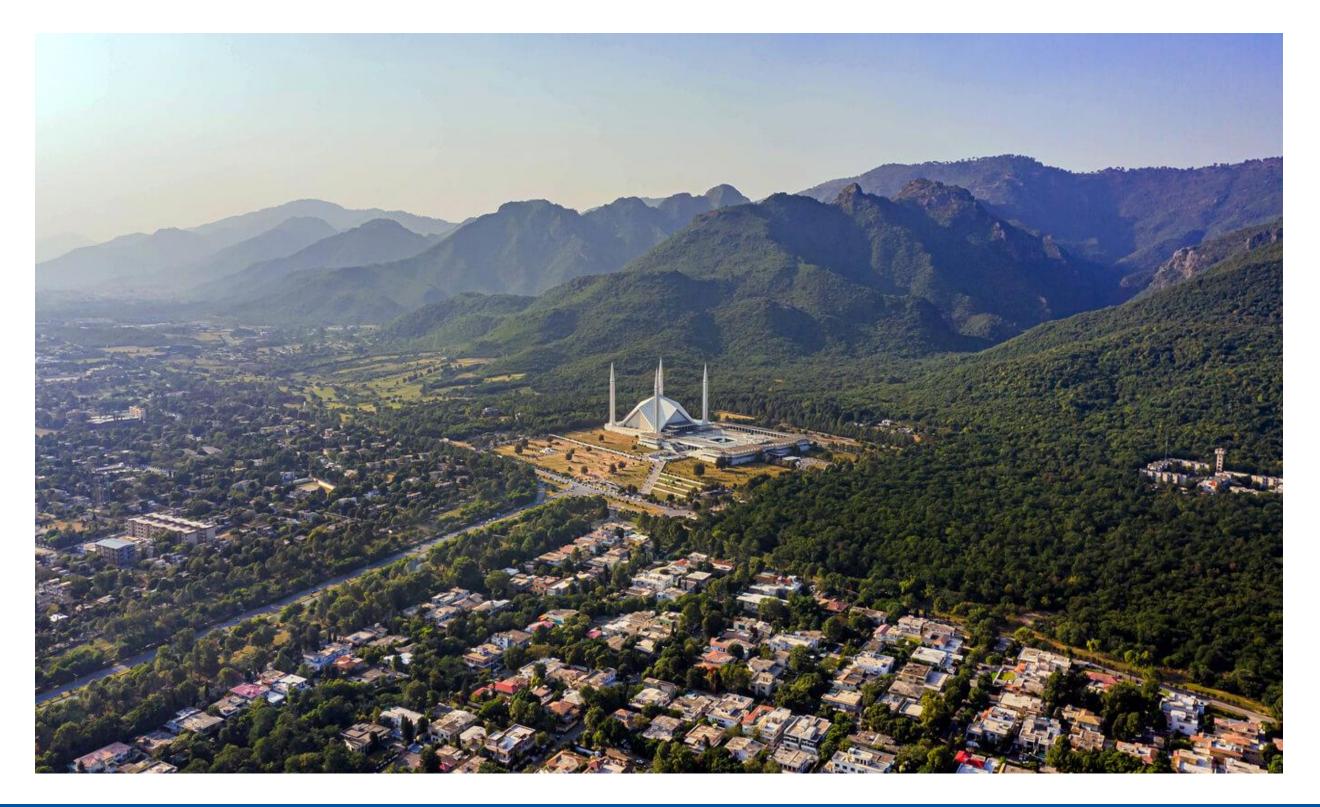


The diversity in our team is INSANE!!!

With team members coming from a number of different cities

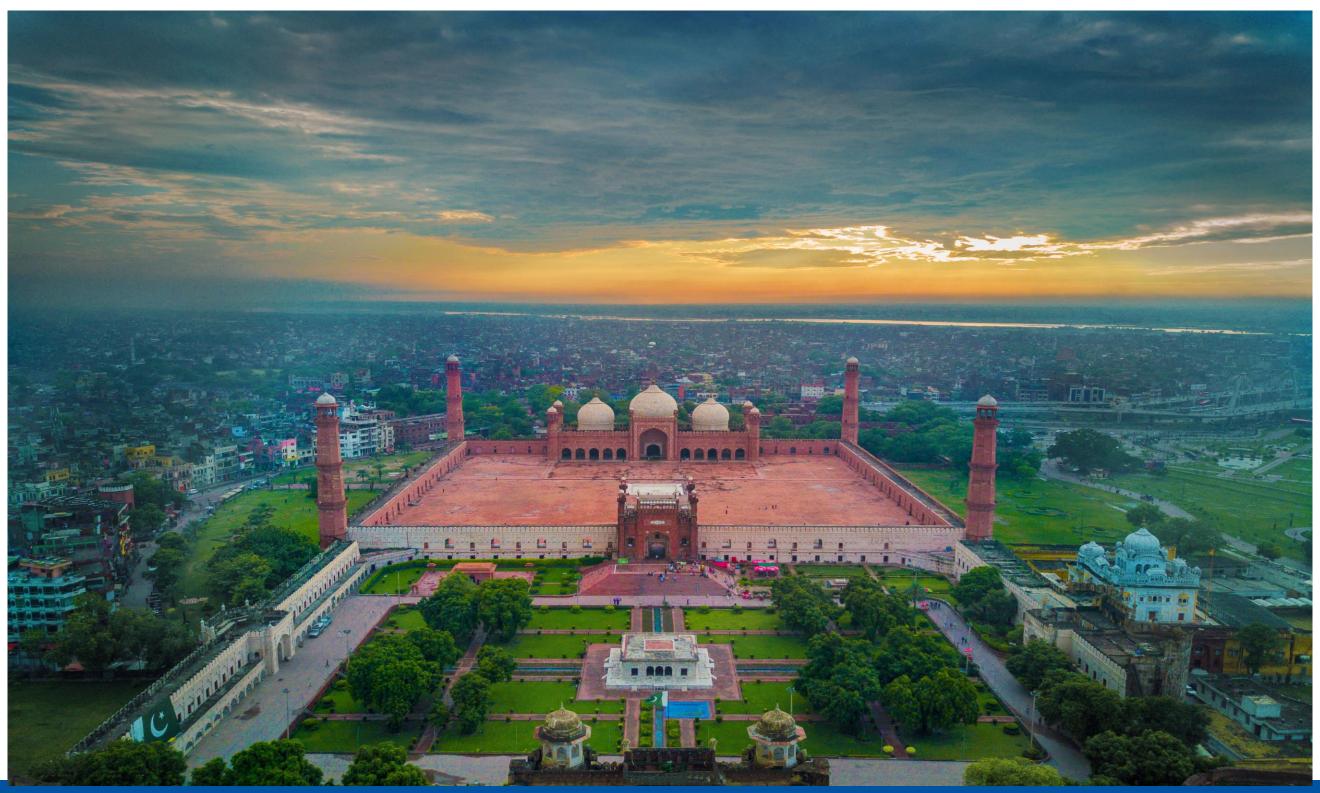


ISLAMABAD



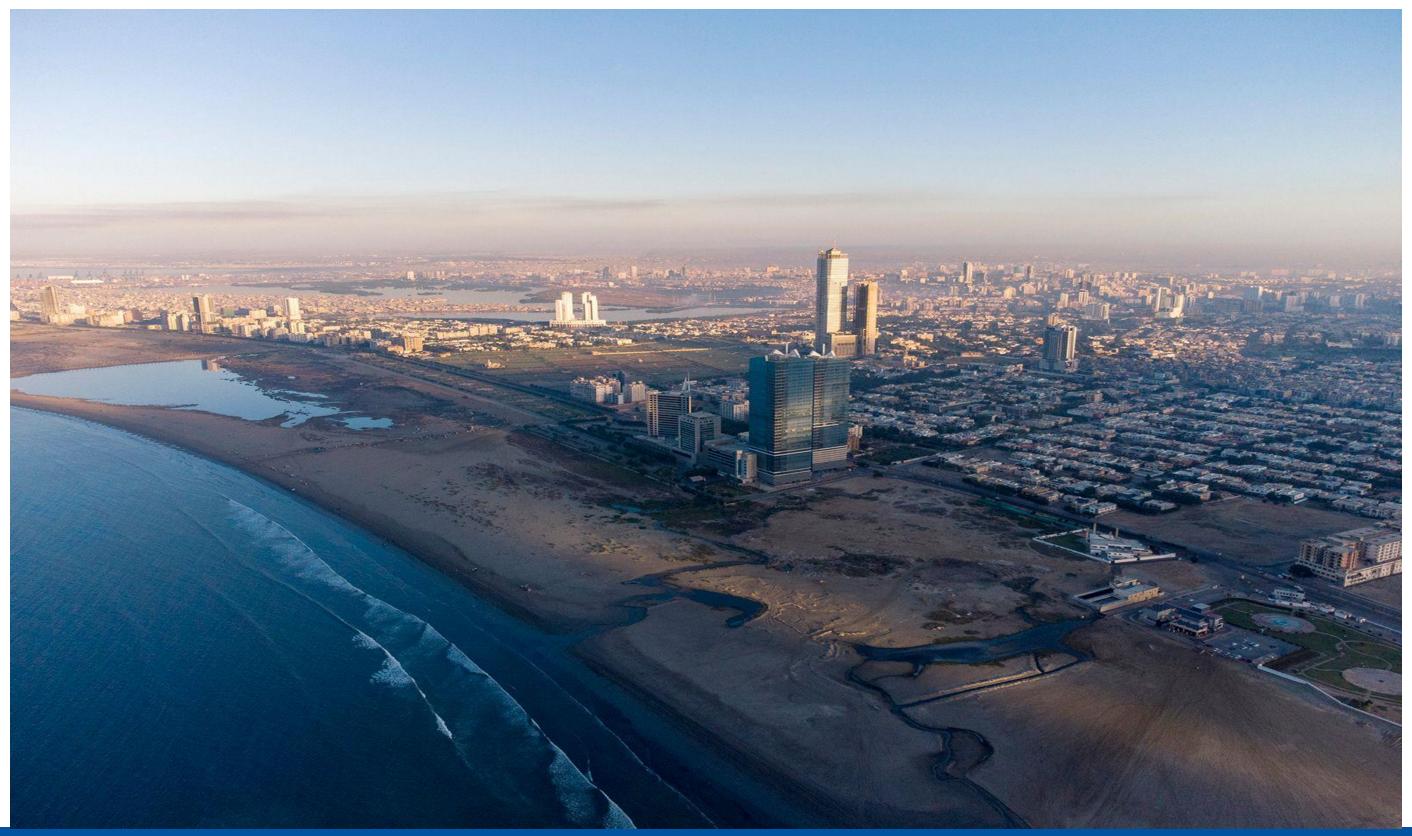


LAHORE



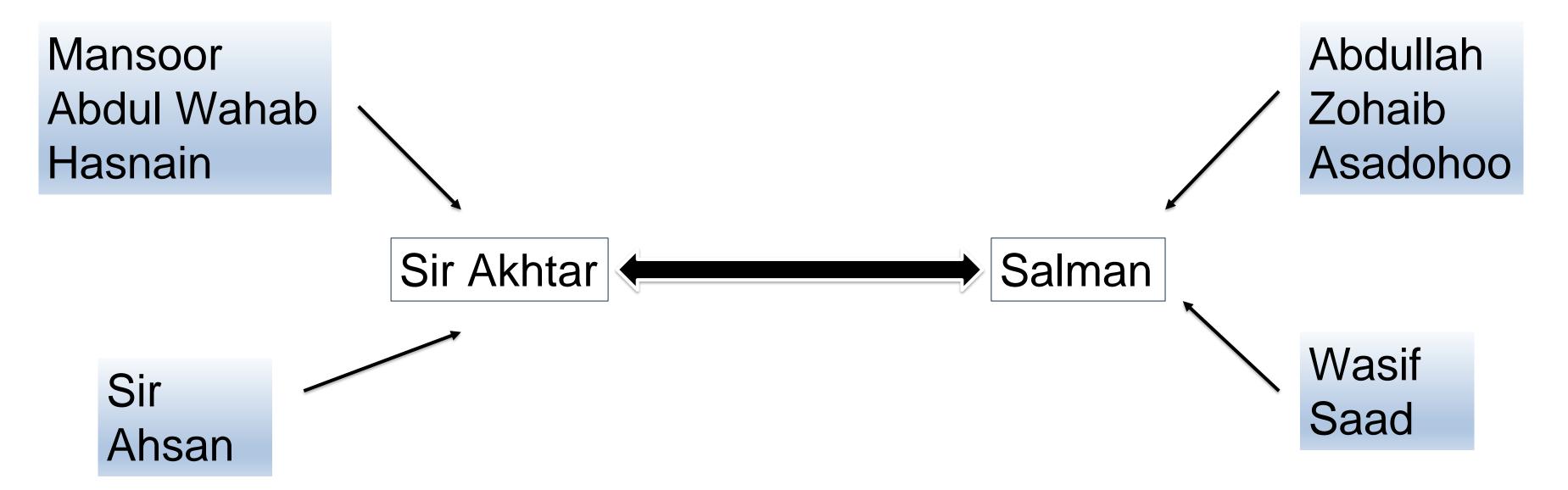


KARACHI





HOW WE MET!







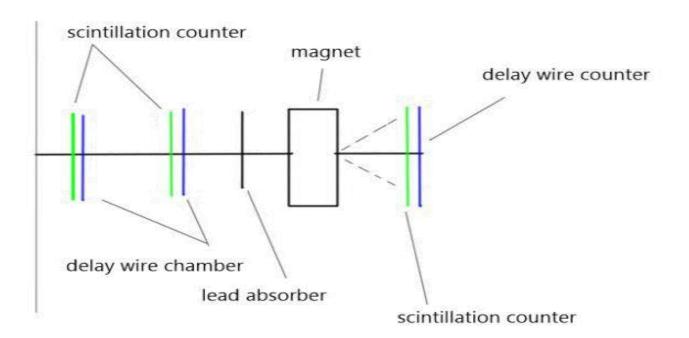
Aim and Experimental Proposal

- * Execute our experimental proposal and partnering with teams from the US and Netherlands.
- Explore use of CERN's accelerators.
- Analyze particle composition at the T10 experimental area using a proton beam.
- * Assess different particle counts using appropriate detectors and setups.
- ❖ We used the scintillation counters, cherenkov detectors, delay wired chambers, and electromagnetic calorimeter.
- We devised four experimental setups.



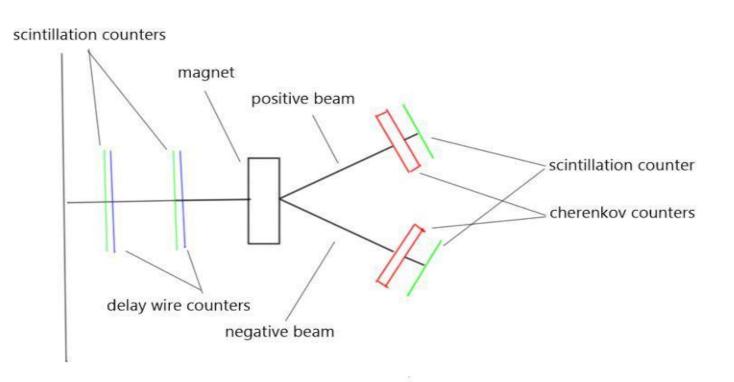


- ❖ In the first setup, we used the scintillation counters, delay wire chambers, lead absorber, and magnet
- This scintillation counters and delay wire chamber(DWC) will count the total number of particles



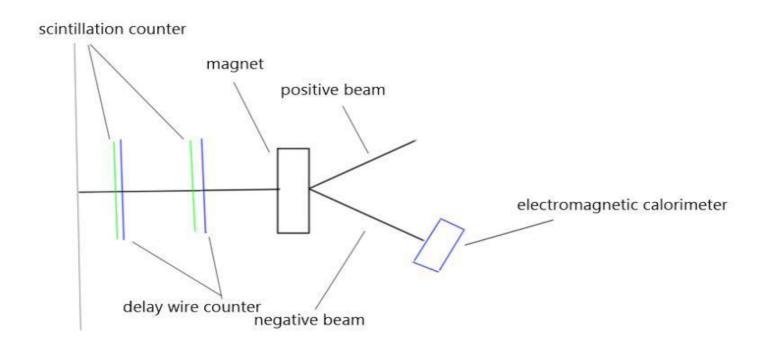


- In this setup, we select the positive charged beam that emerges.
- ❖ We use the cherenkov and scintillation counters to then count the positive charged particles which we expect to be proton, pions, and kaons.
- ❖ We do the same for the other secondary beam to count for the negatively charged particles.





- ❖ In the third setup, we use an electromagnetic calorimeter for the negative beam
- We calculate the energy of the electrons
- ❖ We use the momentum of the electrons and total energy of the electrons to find the redundant count of electrons.





❖ In the last setup, we add an iron block to act as a muon filter and obtain a count for the muons.

