



In June 2024, I was part of an exclusive part of a programme at CERN. This experience, following intensive pre-learning in particle physics and a visit to Kolkata's Bose Institute, introduced us to cutting-edge research at one of the world's foremost scientific institutions.

At CERN, I attended lectures and workshops led by renowned scientists, including Dr. Archana Sharma, who introduced us to the science behind particle accelerators and applications in medicine, such as proton therapy for cancer. Sessions with scientists like Steven Goldfarb and Alexander Becker deepened our understanding of complex concepts, from the Higgs boson to the mechanics of particle detectors.

We explored the Red Cross Museum and learned how CERN's research impacts technology, healthcare, and humanitarian efforts. Beyond physics, this experience was about connecting with new people. Sharing a room with a stranger from another school, I quickly found a friend, and together we explored topics that extended beyond science to ideas about collaboration and global impact.

The trip culminated in a visit to the Montanvers ice caves near Chamonix, where we saw the effects of climate change on glaciers. This journey gave me not only an in-depth understanding of physics but also lifelong connections and a firsthand appreciation for how science shapes our world.