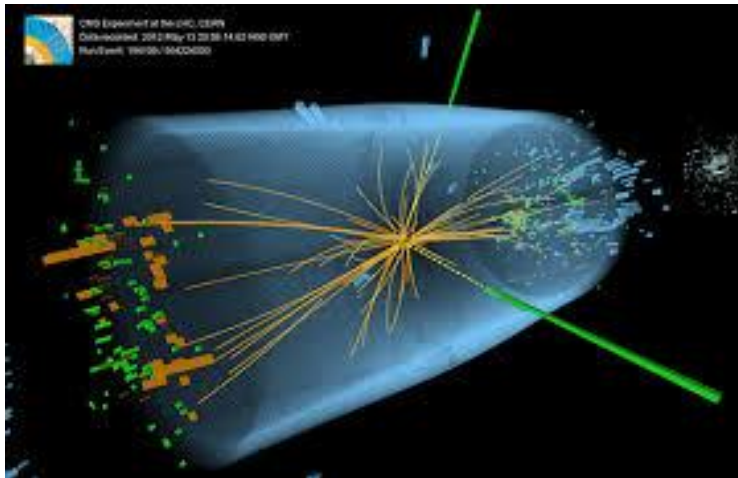


BNMU Joins the CMS Experiment at CERN, Geneva, Switzerland

Bhupendra Narayan Mandal University (BNMU) has marked a significant milestone by becoming a participating institute in one of the world's largest scientific experiments—the CMS (Compact Muon Solenoid) experiment at CERN, Geneva, Switzerland. This prestigious opportunity has been made possible through BNMU's collaboration with the Tata Institute of Fundamental Research (TIFR), one of India's premier research institutions.

The CMS experiment, conducted at CERN (European Organization for Nuclear Research), is a large-scale international scientific endeavor designed to explore the fundamental structure of the universe. CMS is one of the two general-purpose detectors at the Large Hadron Collider (LHC) and has been instrumental in the discovery of the Higgs boson and in probing the mysteries of particle physics. Researchers from around the globe collaborate in this experiment, contributing to our understanding of dark matter, extra dimensions, and the basic forces that shape our universe.



Dr. Ashim Roy, from the University Department of Physics at BNMU, took the initiative to involve the university in this groundbreaking scientific venture. Dr. Roy's association with the CMS experiment dates back to 2013 when he was affiliated with the Saha Institute of Nuclear Physics (SINP), a renowned research institution in India, during his PhD. His journey with the CMS experiment deepened as he spent several years at CERN during his postdoctoral studies, making significant contributions to the project. His extensive experience and dedication to the field of high-energy physics have been instrumental in paving the way for BNMU's participation in this global scientific collaboration through TIFR.

This achievement is a proud moment not only for BNMU but also for the entire state of Bihar. The collaboration with the CMS experiment opens doors for students at BNMU's Department of Physics to engage in cutting-edge research alongside leading scientists from around the world. It provides them with a unique opportunity to learn from experts in high-energy and particle physics, gaining hands-on experience with the technologies and methodologies used in one of the most advanced scientific facilities in existence.

The initiative led by Dr. Ashim Roy represents a significant step forward for BNMU, creating an environment where its students and researchers can contribute to and benefit from international collaborations. It stands as a testament to BNMU's commitment to advancing research and education in physics, ensuring that its community is well-prepared to make meaningful contributions to the global scientific landscape.