



European Organisation for Nuclear Research (CERN)

Prof. Seema Sharma, IISER-Pune

India's Contribution to CMS Experiment at CERN



## About the Speaker:

- Dr. Seema Sharma is an Associate Professor of Physics at the Indian Institute of Science Education and Research in Pune (IISER, Pune). She completed her PhD from TIFR, Mumbai and was a postdoctoral research fellow at Fermilab, USA before joining IISER-Pune. Dr. Sharma is an experimental particle physicist interested in understanding the fundamental building blocks of nature and their interactions using the proton proton collisions delivered by the Large Hadron Collider. Along with members of India-CMS collaboration, she is preparing for upgrading the CMS detector components to be able to sustain harsh radiation exposure as the LHC becomes more powerful in coming years. In her quest for unraveling the mysteries of nature, Dr. Sharma is playing a key role in searching for the new fundamental particles, and is presently leading the “SuperSymmetry Physics Group”, one of the three new physics search groups of the CMS experiments’ physics program.

