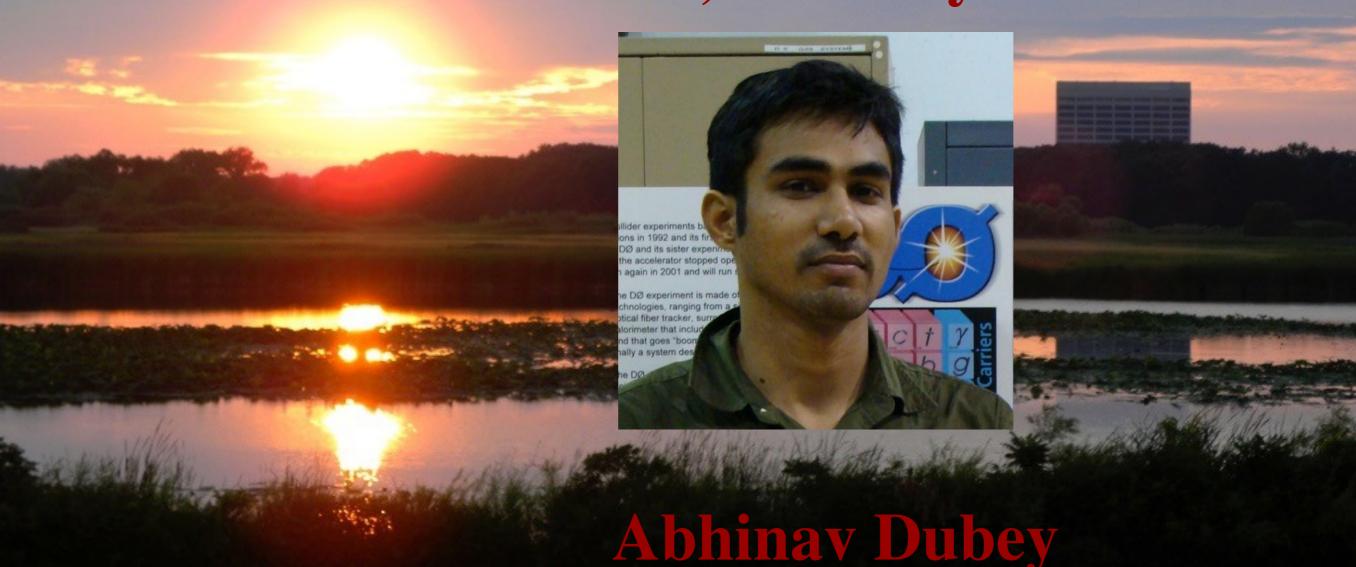
HEP plans at Amity University Haryana

Indo-Japan Neutrino Meeting IOP Bhubneswar, 15th May - 2017





Introduction

PhD, Delhi University (2006-2012): D0 experiment at Tevatron.

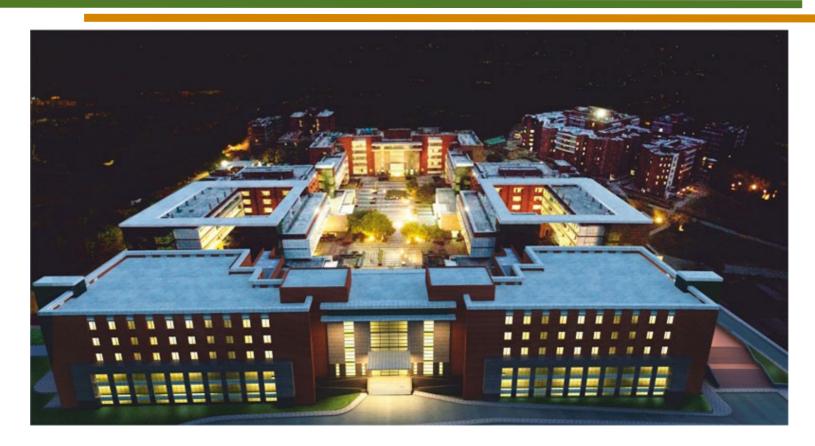
- -- Was based in Fermilab for whole duration of my PhD
- -- Thesis on standard model Higgs boson search in low mass region
- -- Analysis channel ZH → vv (missing energy) + 2 b-jets
- -- Worked as D0 Calorimeter expert
- -- Regulalrly took Calorimeter-Muon system shifts
- -- Also took data acquisition system (DAQ) shifts
- -- Was involved in new data certification using MET studies

Postdoc, Tohoku University (2012-2015): Proposed ILC experiment

- -- Heavy Higgs studies at 1 TeV energy in low tanβ regions
- -- Analysis channel : $HA \rightarrow 4$ b-jets with mH = mA = 400 GeV
- -- Chacarterization of FPCCD detector



About Amity University Haryana



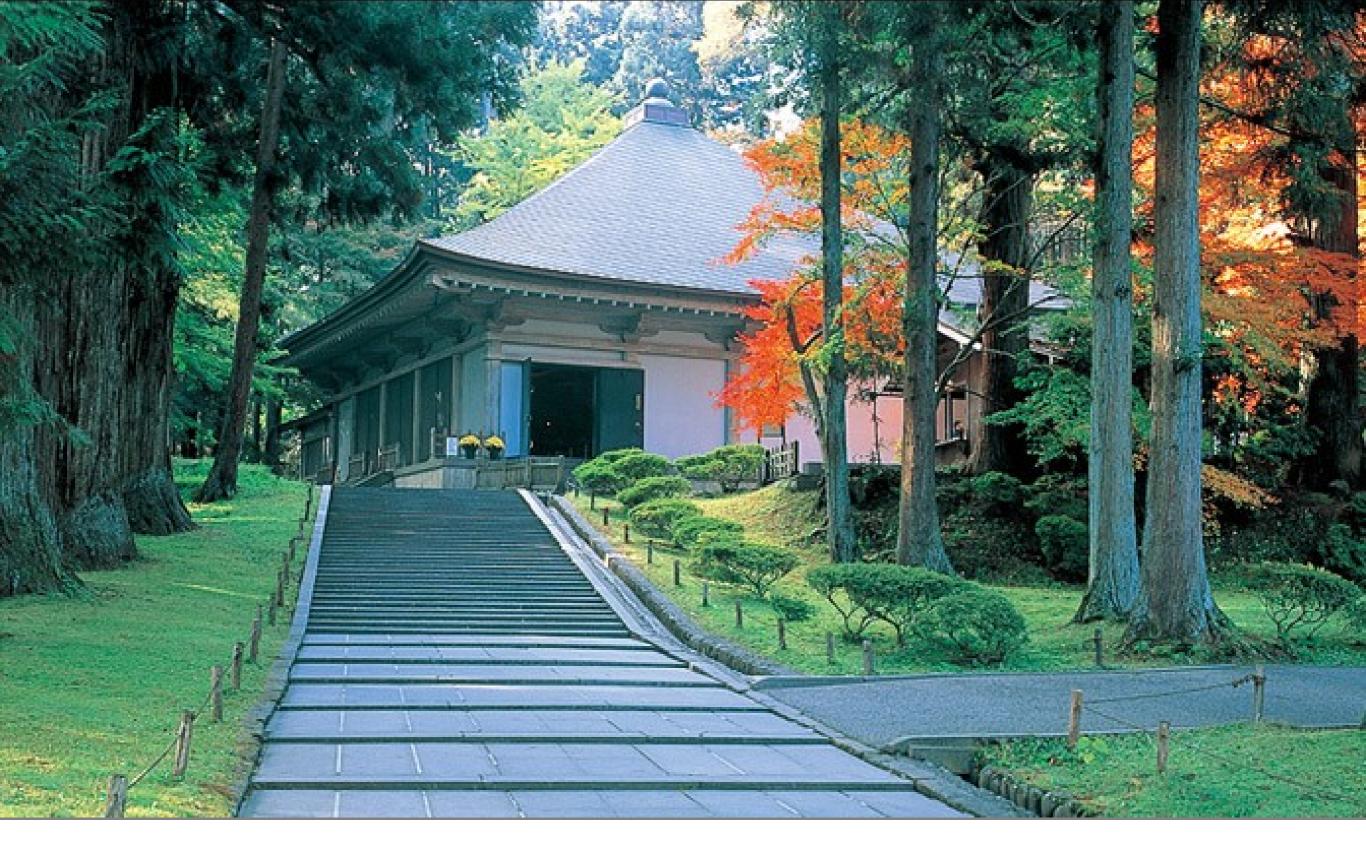
- A private university, established in 2010.
- Situated at Delhi-Jaipur Highway in 110 Acres campus near industrial town Manesar
- In Physics, BSc (H), MSc and PhD courses are offered
- Physics department has 12 faculties, but currently I am the only one from Particle Physics
- Research facilities are available now only for Material Sciences
- University has assured me of all possible help in starting HEP work

IOP: 15-05-2017 Abhinav Dubey



Research Plans

- Want to start working in the field of neutrinos
- Although I have never worked in neutrinos, but I am quite sure that my previous experience in other experiments will help me in this transition
- I can participate in software related parts and data analysis. I can take remote shifts if any, or any other job which can be done remotely
- I can also contribute in onsite operations efforts, but for that first I will have to arrange research funds so that I can travel
- I have spent ~3 years in Japan and I was a frequent visitor to KEK, so I think I will not face any problem in working in KEK experiments



THANK YOU