

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE
2A&B, Raja S.C. Mullick Road, Jadavpur, Kolkata-700032, India

Seminar Notice

Org. by

Theoretical Physics Department

Title:	Higher order QCD corrections to heavy quark form factors
Speaker:	Narayan Rana, DESY, Zeuthen, Germany
Date:	November 1, 2017 (Wednesday)
Time:	3:00 p.m.
Venue:	Theoretical Physics Seminar Room (C406), 3rd Floor, Centenary Building, IACS
Abstract:	In this talk we will present the perturbative QCD corrections to heavy quark form factors. We consider different currents, namely vector, axial-vector, scalar and pseudo-scalar, coupled to heavy quark. We present corrections up to $O(\epsilon^2)$ at two-loop which is an essential part towards obtaining three-loop result. $\epsilon = (4-D)/2$, where D is the space-time dimensions. Further, we discuss behavior of the form factors at different kinematical regions.

All are cordially invited to attend the seminar