

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

Seminar Notice

Org. by
School of Physical Sciences

Title:	Soft-Collinear Effective Theory (SCET) – Beyond the parton model
Speaker:	Jyotirmoy Roy, University of Toronto
Date:	January 7, 2020 (Tuesday)
Time:	15:00 Hours
Venue:	Physics Seminar Room (C406), 3rd Floor, Centenary Building, IACS
Abstract:	Proving factorization theorems in perturbative QCD are challenging and is known only for few processes at leading power. On the other hand, disentangling of short-distance physics from long-distance happens naturally in effective field theories (EFT). In this talk I will give a brief introduction to Soft-Collinear Effective theory - an EFT for jet physics which can be used to systematically factorize observables beyond the parton model picture. Moreover the built-in technology of renormalization group will allow us to resum the Sudakov logarithms which plagues jet physics.

All are cordially invited to attend the seminar