

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:	Application of Deep Learning in LHC Physics : an experimental overview
Speaker:	Sanmay Ganguly, Department of Particle Physics & Astrophysics, Weizmann Institute of Science, Israel
Date:	February 12, 2020 (Wednesday)
Time:	15:30 Hours
Venue:	Physics Seminar Room (C-406), 3rd Floor, Centenary Building, IACS
Abstract:	Machine learning has played a crucial role in the analysis of high energy physics data for decades. The application of deep learning in high energy physics emerged around 2014 and allowed for more sophisticated analysis of higher dimensional data which was unprecedented pre deep learning era. LHC physics inference swirls around big data. In the current ATLAS/CMS physics programme, modern deep learning techniques are used as default for object identification to event reconstruction. In this talk I will overview some current results from ATLAS/CMS which primarily uses deep learning and try to highlight the Run-3 application plans from a deep learning view point.

All are cordially invited to attend the seminar