[Under the aegis of MHRD- Global Initiative of Academic Network (GIAN)]

Introduction to Quantum Chromodynamics (QCD)

University of Mumbai

2nd November, 2016- 9th November, 2016

Topics:

- *Introduction to QCD [symmetries, quantization, renormalization*
- *Infrared aspects: KLN theorem, factorization, eikonal approximation, webs*
- *Resummation of large logarithmic corrections, and applications to LHC processes*

You should attend if..

- *You are a Ph. D. student working in the area of theoretical and experimental High Energy Physics (HEP)*
- *You are a post-doctoral fellow or young researchers in HEP*
- *You are senior colleague in a university or national institute and find the course useful due to specialized topics*

The participation fees for taking the course is as follows:

Ph. D. Students	**: Rs. 1000.00**
M.Sc, Students	**: NIL**
Participants from abroad	**: US $100.00**
Senior Faculty	**: Rs. 2000.00**

Prof. Eric Laenen
Professor in Theoretical Physics, University of Amsterdam
Research Interest: High Energy Collider Phenomenology and QCD

Prof. Eric Laenen is an internationally renowned expert in the area of high energy collider phenomenology and Quantum Chromodynamics. He received his Ph.D. from Stony Brook University, and held postdoctoral positions at Fermilab and CERN. Prof. Laenen is the head of the theory group at Nikhef, Amsterdam, Netherlands since 2005. He is also Professor of Theoretical Physics at the University of Amsterdam and at Utrecht University.
Prof. Eric Laenen has wide teaching experience and has given lectures at more than 10 international schools in HEP including the prestigious CTEQ school and the European CERN School in High Energy Physics.

Prof. Anuradha Misra
Professor and Head of the Department, Department of Physics, Mumbai University
Research Interest: Quantum Chromodynamics and Light-front field theory

How to apply: ***The applicants should register at GIAN site and apply in the application form available on GIAN site or the form attached with this poster mentioning the GIAN registration number in the subject line. Applicants can visit GIAN site at the following link***

http://www.gian.iitkgp.ac.in

Mode of payment: ***Demand draft in favour of "Finance & Accounts Officer, University of Mumbai" payable at Mumbai. The demand draft is to be sent to the Course Coordinator at the address given below***

The participants may be provided with hostel accommodation depending on the availability, Request for hostel accommodation may be submitted by sending a mail at ***gian_qcd@mu.ac.in***

Course Co-ordinator:
Prof. Anuradha Misra.
Department of Physics,
University of Mumbai,
Santa Cruz (E), Mumbai-400096, India
Phone: +912226526250
E-mail: misra@physics.mu.ac.in

Introduction to Quantum Chromodynamics (QCD)

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(November 2- 9, 2016)

Registration Form

Title (Mr./Ms./Mrs./Dr./Prof.):

Full Name:

Designation:

(For students, name of the course and the year are to be mentioned clearly)

Name of the Institution:

Address for Correspondence:

E-mail:

Phone:

Accommodation Required: **YES/NO**

Exemption from Registration Fee Required **YES/NO**

(If yes, give reason within 50 words on a separate sheet)

GIAN Registration number:

Reason for Participation:

(Within 150 words on a separate sheet)

Place: **(Signature of the Applicant)**

Date:

Forwarded by HOD/Supervisor

Note: Duly filled-up signed and scanned registration form should be sent to the e-mail id: ***gian_qcd@mu.ac.in*** before September 2, 2016.