

INTRODUCTION TO LIGHT-FRONT HADRON PHYSICS

University of Mumbai

11th September- 16th September, 2017



Prof. Stanley J. Brodsky

Theoretical Physics, SLAC National Accelerator Laboratory, Stanford University, USA.

Prof. Stanley J. Brodsky is an internationally acclaimed theoretical physicist and professor at the SLAC National Accelerator Laboratory at Stanford University, USA. His research has been focused mainly in the area of perturbative and non-perturbative quantum chromodynamics along with the light cone quantization. He was the 2007 recipient of the Sakurai Prize for Theoretical Particle Physics, for “applications of perturbative quantum field theory to critical questions of elementary particle physics, in particular, to the analysis of hard exclusive strong interaction processes.” In 2015, he received the Pomeranchuk Prize, an international award for theoretical physics. He has also received the U.S. Distinguished Scientist Award from the Alexander von Humboldt Foundation.



Prof. Chueng R. Ji

Department of Physics, North Carolina State University, Raleigh, USA.

Prof. Ji has developed a relativistic quark model motivated by quantum chromodynamics (QCD) to describe hadron structure and spectrum. He has contributed immensely to the idea of utilizing the light cone in solving relativistic bound state and scattering problems. He is the fellow of American Physical Society and the Chair of the International Light Cone Advisory Committee.



Prof. Anuradha Misra

*Professor, Department of Physics,
Mumbai University*

COURSE CO-ORDINATOR:

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TOPICS:

- Introduction to QCD and Light-Front Field Theory
- Light-Front QCD : Theory and applications
- Light-Front Holography
- Superconformal Algebra and QCD
- Principle of Maximum Conformality and Perturbative QCD
- Novel QCD Physics

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 researcher in HEP
- You are a senior colleague in a university or national institute and find the course useful due to specialized topics

HOW TO APPLY: The applicants should register at GIAN site and apply through 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>

REGISTRATION FEES :

The participation fees for taking the course is as follows:

Ph. D. Students	: Rs. 1200.00
M.Sc. Students	: NIL
Participants from abroad	: US \$100.00
Senior Faculty	: Rs. 2500.00

The above fees include all instructional materials, computer use for tutorials and assignments, laboratory equipment usage charges, 24 hr free internet facility. The participants will be provided with accommodation on payment basis.

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.

Overseas applicants should contact the course coordinator for information about the mode of payment.

ACCOMODATION:

The participants may be provided with hostel accommodation depending on the availability, on payment basis.

Request for hostel accommodation may be submitted by sending a mail to gian_qcd@mu.ac.in.