

## XII SERB SCHOOL ON EXPERIMENTAL HIGH ENERGY PHYSICS

**TIFR, Mumbai, Jan 7-27, 2019**

Date	class(AG66) 10:00 - 11:30	tea	class(AG66) 12:00 - 13:30	lunch	D406 14:30 - 16:30	tea	D406 17:00 - 19:00
07/01/19	TR/PS(1)		IM(1)		Intro to expt BSN		E(I-1) / S(II)
	9:30 - 11:00		11:30 - 13:00		14:00 - 16:00		16:30 - 18:30
08/01/19	TR/PS(2)		IM(2)		E(I-2) / S(II)		E(I-3) / S(II)
09/01/19	TR/PS(3)		TR/PS(4)		E(I-4) / S(II)		E(I-5) / S(II)
10/01/19	TR/PS(5)		IM(3)		E(I-6) / S(II)		Sp lec (SR)
11/01/19	TR/PS(6)		IM(4)		E(I-7) / S(II)		E(I-8) / S(II)
12/01/19	TR/PS(7)		RK(1)		E(I-9) / S(II)		E(I-A) / S(II)
13/01/19      Holiday							
14/01/19	RK(2)		MG(1)		E(I-B) / S(II)		E(I-C) / S(II)
15/01/19	MG(2)		MG(3)		E(I-D) / S(II)		E(I-E) / S(II)
16/01/19	DA(1)		DA(2)		E(I-F) / S(II)		E(II-I) / S(I)
17/01/19	EG(1)		DA(3)		E(II-2) / S(I)		Sp lec (AD)
18/01/19	EG(2)		DA(4)		E(II-3) / S(I)		E(II-4) / S(I)
19/01/19	EG(3)		EG(4)		E(II-5) / S(I)		E(II-6) / S(I)
20/01/19      Excursion							
21/01/19	SU(1)		GM(1)		E(II-7) / S(I)		Sp lec(ST)
22/01/19	SU(2)		JA(1)		E(II-8) / S(I)		E(II-9) / S(I)
23/01/19	SU(3)		JA(2)		E(II-A) / S(I)		E(II-B) / S(I)
24/01/19	JA(3)		SA(1)		E(II-C) / S(I)		Sp lec (CSU)
25/01/19	RP(1)		SA(2)		E(II-D) / S(I)	Pel	E(II-E) / S(I)
26/01/19	RP(2)		SA(3)		E(II-F) / S(I)	Pel	Concluding..

- Tuhin Roy, TIFR, Mumbai (TR)/Pratishruti Saha, HRI, Allahabad (PS), Standard Model & Collider Physics
- Indranil Mazumdar, TIFR, Mumbai (IM), Detector Physics
- Rishi Khatri, TIFR, Mumbai (RK) : Dark Matter
- Manoranjan Guchait, TIFR, Mumbai (MG), Relativistic Kinematics
- Darin Acosta, University of Florida, USA (DA), Electronics, DAQ, Trigger
- Eilam Gross, Weizmann Institute of Science, Israel (EG), Statistical Methods and Error Analysis
- S. Umasankar, IIT, Bombay (SU), Flavour Physics
- Sanjib Agarwalla, IOP, Bhubaneswar (SA), Neutrino Physics
- Jane-e-Alam VECC, Kolkata (JA), Quark Gluon Plasma
- Raj Pillay, IIT Ropar, Ropar (RP) : Accelerator Physics & application

### **Special lectures at 16:30hrs**

- History of particle physics in India, Prof. Sreerup Raychaudhuri, TIFR
- Astroparticle Physics of Neutrinos, Prof. Amol Dighe, TIFR
- Entanglement in Gauge Theories, Prof. Sandip trivedi, Director, TIFR
- New astronomy at 'home and the world' with advanced gravitational wave detectors, Prof. C.S. Unnikrishnan, TIFR

**PeI** : Visit to Peletron-LINAC experimental hall

There will be few extra lectures on gaseous detector/tracker and Detectors in different experiments after regular time slots. Students will be informed in time about those.