

National School cum Workshop in Accelerator Physics

March 15 -18, 2016, Department of Physics Panjab University, Chandigarh

Day – 01
15/03/2016

Venue: Prof. B.M. Anand Auditorium, Department of Physics

9:15 - 10:00	Registration by participants, collection of workshop kits At physics dept. entrance	Dr. Lokesh Kumar and group
10:00 – 11:00	Inauguration and key note Lecture by Dr. D.K. Avasthi Amity University, Noida Formerly IUAC, New Delhi	TBA

High Tea: 11:00 – 11:30

Venue: Seminar Hall, Department of Physics

11:30-12:00	Prof. D. Mehta Department of Physics Panjab University, Chandigarh	Panjab university accelerator project
12:00-12:30	Dr. J.S. Shahi Department of Physics Panjab University, Chandigarh	Basics of XRF technique
12:30-13:00	Dr. Sunil Arora Centre for Nano Science and Nano Technology Panjab University, Chandigarh	Role of ion beams in nano- fabrication

Lunch: 13:00- 14:00

14:00 – 14:30	Dr. Ashok Kumar Department of Physics Panjab University, Chandigarh	Basics of PIXE Techniques
14:30-15:00	Dr. Biraja Mohanty Department of Bio-physics Panjab University, Chandigarh	Operation of PU Variable Energy Cyclotron Accelerator
15:00 – 16:00	Er. A.K. Jain Department of Physics Panjab University, Chandigarh	Basics of Mat Lab

Tea: 16:00 – 16:20

Demonstrations at Respective Laboratory

16:20-18:00	Dr. Ashok Kumar and Group	Demonstration at Cyclotron Lab (Group - 01)
16:20-17:30	Dr. J.S. Shahi and Group	Demonstration at XRF Lab (Group – 02)
16:20 – 17:30	Prof. S.K. Tripathi and Group	Demonstration at Material Science Lab (Group – 03)
16:20 – 17:30	Er. A.K. Jain	Demonstration of MAT LAB at Electronics Lab (Group – 04)

End of Day – 01

Day – 02
16/03/2016

Venue: Seminar Hall, Department of Physics

9:30 10:00	Dr. Sanjeev Gautam Dr.S. S. Bhatnagar University Institute of Chemical Engineering and Technology Panjab University, Chandigarh	Synchrotron radiation research
10:00 – 11:00	Dr.Rajeev Mehta Inter University Accelerator Centre, New Delhi	Beam Optics Lecture -01

Tea: 11:00 – 11:30

11:30-12:30	Prof. Asimananda Goswami Nuclear Physics Division Saha Institute of Nuclear Physics. Kolkata	FRENA An upcoming facility for nuclear astrophysics: simulating stars in the laboratory
12:30-13:00	Prof. Vipin Bhatnagar Department of Physics Panjab University, Chandigarh	Detectors for High Energy Physics Experiments

Lunch: 13:00- 14:00

14:00 – 15:00	Dr. C.P. Safvan Inter University Accelerator Centre, New Delhi	Radio Frequency Quadrupole Accelerators
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Tea: 15:00 – 15:20

Demonstrations at Respective Laboratory

15:20-17:20	Dr. Ashok Kumar and Group	Demonstration at Cyclotron Lab (Group -2)
15:20-17:20	Dr. J.S. Shahi and Group	Demonstration at XRF Lab (Group –3)
15:20 – 17:20	Prof. S.K. Tripathi and Group	Demonstration at Material Science Lab (Group – 4)
15:20 – 17:20	Er A.K. Jain	Demonstration of MAT LAB at Electronics Lab (Group – 01)

End of Day – 02

Day – 03
17/03/2016

Venue: Seminar Hall, Department of Physics

9:30 – 10:30	Rajeev Mehta Inter University Accelerator Centre, New Delhi	Beam Optics Lecture -02
10:30– 11:00	Dr. Ajaya Tyagi Department of Physics BHU, Varanasi	BHU Accelerator Project & physics with neutron beam

Tea: 11:00 – 11:30

11:30-12:30	Prof. P.K. Bajpai Department of Physics Guru Ghasi Das University Bilaspur, MP	Recent Advances in Material Science Research Using Low Energy Ion Accelerators and Facilities at 3.0 MV Pelletron Based National Centre for Accelerator Based Research at Bilaspur.
12:30 – 13:00	Prof. S.K. Tripathi Department of Physics Panjab University, Chandigarh	Basics of thin film deposition techniques

Lunch: 13:00- 14:00

14:00 – 15:00	Dr. P.N. Prakash Inter University Accelerator Centre, New Delhi	Design and testing of TEM class superconducting niobium resonators for heavy ion linacs Lecture - 01
15:00-16:00	Prof. Indranil Majumdar Tata Institute of Fundamental Research, Mumbai	High Intensity Gamma Ray Source (HIGS) and Related Physics

Tea: 16:00 – 16:15

Demonstrations at Respective Laboratory

16:15 -17: 30	Dr. Ashok Kumar and Group	Demonstration at Cyclotron Lab (Group - 3)
16:15-17:30	Dr. J.S. Shahi and Group	Demonstration at XRF Lab (Group – 4)
16:15 – 17:30	Prof. S.K. Tripathi and Group	Demonstration at Material Science Lab (Group – 1)
16:15 – 17:30	Er A.K. Jain	Demonstration of MAT LAB at Electronics Lab (Group – 2)

End of Day – 03

Day – 04
18/03/2016

Venue: Seminar Hall, Department of Physics

9:30 10:30	Dr. P.N. Prakash Inter University Accelerator Centre, New Delhi	Design and testing of TEM class superconducting niobium resonators for heavy ion linacs Lecture -02
10:30– 11:00	Prof. M.L. Garg Department of Bio-physics Panjab University, Chandigarh	Trace elements analysis of biological samples by Nuclear Analytical techniques

Tea: 11:00 – 11:30

11:30-12:00	Dr.S. Sihotra Department of Physics Panjab University, Chandigarh	Fast timing measurements with LaBr ₂ detector
12:00-13:00	Prof. Sanjeev Aggarwal Department of Physics Kurukshetra University, Kurukshetra	KU accelerator

Lunch: 13:00- 14:00

Demonstrations at Respective Laboratory

14:00 - 14:45	Prof. Sanjeev Aggarwal and Group	Demonstration of Material Science Simulation Group – (Special)
14:45 – 15:30	Prof. Sanjeev Aggarwal and Group	Demonstration of Material Science Simulation Group – (Special)
15:30 – 16:15	Prof. Sanjeev Aggarwal and Group	Demonstration of Material Science Simulation Group - (Special)
14:00 – 16:15	Dr. Jain	Demonstration of MAT LAB at Electronics Lab (Group - 1)
14:00 – 16:15	Dr. Ashok Kumar and Group	Demonstration at Cyclotron Lab (Group - 4)
14:00 – 16:15	Prof. S.K. Tripathi and Group	Demonstration at Material Science Lab (Group – 3)
14:00 – 16:15	Dr. J.S. Shahi and Group	Demonstration at XRF Lab (Group –3)
14 – 16:15 (In three groups only Interested participants)	Prof. Vipin Bhatnagar and group	Visit to RPC Lab (Special group)

Tea 16:15 – 16:30

16:30 – 17:00 Feed back and distribution of certificates

End of the Workshop