

Accepted papers for NSNI 2010

	A	D	E
1	Paper ID	Paper Title	First Author
2	NSNI-2	Characterization of Silicon PIN diode based Continuous Radon Monitoring System	P.Ashokkumar
3	NSNI-4	DDCS Interface system for Safety Logic with Fine Impulse Test	M.Vincent
4	NSNI-5	Development of VECC Cryogenic Penning Ion Trap	P. Das
5	NSNI-6	Effect of ^{60}Co γ ray irradiation on Electrical parameters of MOVPE grown GaAs epilayer and p-i-n detectors	Shailesh K. Khamari
6	NSNI-7	Fabrication and characterization of fully depleted surface barrier detectors	A. Ray
7	NSNI-9	Implementation of Advanced Level Measurement Technology	G.Pradeep Kumar
8	NSNI-10	Improvements in Personnel Monitoring System based on $\text{CaSO}_4:\text{Dy}$ embedded Teflon discs	C.Sneha
9	NSNI-11	Instrumentation of Explosive Detection System Using Pulsed D-T Neutron Source	Surender Kumar Sharma
10	NSNI-12	Investigations on ^3He Filled Neutron Proportional Counters Aimed at Various Neutron Applications	S. S. Desai
11	NSNI-13	Kolkata Superconducting Cyclotron M9 Slit Control	T.K. Bhattacharyya
12	NSNI-14	Online Measurement of Electron Beam Parameters by Image Processing	Y.Tyagi
13	NSNI-15	Role of Proper Grounding in Measurements of RF signals	P. D. Bhatt1
14	NSNI-16	Prototype System for the Digital Technique Based Nuclear Spectroscopy	Devendra Bhalé
15	NSNI-17	Radiation Monitoring and Display System for Reprocessing and Waste Management Plants	K.P.RAJEEV
16	NSNI-18	Two Stage Preamplifier for CsI(Tl) Filter Array	A. Choudhury
17	NSNI-19	Verification and Validation and Quality Assurance for Hardware Based I & C Systems of Prototype Fast Breeder Reactor	R. Ramakrishnan
18	NSNI-20	Development of 1m x 1m bakelite Resistive Plate Chamber for INO-ICAL prototype	S. Biswas
19	NSNI-21	Development of High Sensitivity Transimpedance Amplifier Module for Self Powered Neutron Detectors	T. K. Khan
20	NSNI-26	Experimental arrangement for measuring neutron distribution simultaneously at four angles from ^{12}C induced reactions at 12A MeV	M. Nandy
21	NSNI-27	Mobile Robot for Radiation Monitoring	S.Sharma
22	NSNI-28	A compact pulse shape discriminator electronics for large neutron arrays	S.Venkataraman
23	NSNI-30	Development of Softcore Processor based RTU for FBR	Aditya Gour
24	NSNI-31	Fractional Order Model Identification of a Nuclear Reactor	Mrs. Madhura Bhujbal
25	NSNI-32	Image Processing for Automatic Analysis of CR-39 Track for Fast Neutron Dosimetry	Rajesh Babu
26	NSNI-34	Qualifications of Real Time Computer Systems for PFBR	M.Manimaran
27	NSNI-35	CPLD/FPGA Implementation of Serial Synchronous and ENDAT Communication Protocol for Absolute Optical Encoders	G.Venkat Kishore
28	NSNI-37	Hardware Standardization for Embedded systems	M.K.Sharma
29	NSNI-39	Software Standards and Qualification for Safety Related Systems of PFBR	K. Kameswari
30	NSNI-41	Robotic Camera Assistant for Laparoscopic Surgery	Varsha Shirwalkar
31	NSNI-44	Calibration Facilities of Neutron Detectors used in Indian nuclear Reactors	V. Sathian
32	NSNI-45	Comparison of neutron spectrum obtained by time of flight and proton recoil pulse height unfolding	Sunil C
33	NSNI-46	Design & Development of Remote Terminal Unit for PFBR	R. P. Behera
34	NSNI-47	Design & Development of Switch Over Logic System for PFBR	R. P. Behera
35	NSNI-48	Detection of Argon Leak from Main Vessel	K.Raghupathy
36	NSNI-49	Development of 'XRFET' Dosimeters for Integrated Ionizing Radiation Measurements	Anita Topkar
37	NSNI-50	Microwave-induced Chemical Etching (MICE): A Novel Technique for Rapid Development of Latent Tracks in Polymeric Nuclear Track	S.P. Tripathy
38	NSNI-52	Silicon Microstrip Sensors and Pad Detectors for Physics Experiments	Anita Topkar
39	NSNI-54	A scattering chamber of 150 cm diameter for Pelletron-LINAC facility at Mumbai	A. Chatterjee
40	NSNI-56	High Speed USB Data Logger for Position Sensitive Detector Data Acquisition	S. K. Poudel
41	NSNI-57	Implementation of Serial Peripheral Interface master on FPGA for parallel readout of multiple SPI devices	S. K. Poudel
42	NSNI-58	Microcontroller based Automation System for End Plug welding of Test Fuel Pins in Solgel Facility	J. Prabhakar Rao
43	NSNI-59	Reliability analysis of microcomputer boards and computer based systems important to safety of Nuclear Plants	S.V. Shrikhande

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1	Paper ID	Paper Title	First Author
44	NSNI-60	Software development for computer based Instrumentation & Control Systems for PFBR	P.Parimalam
45	NSNI-61	Analysis of Gm-C Filters for Pseudo-Gaussian Response	Sourav Mukhopadhyay
46	NSNI-62	Analysis of foundry specified SPICE models for different CMOS structures	V.B. Chandratre
47	NSNI-63	Analytical model for calculating Effective Aspect ratio of Extended gate Transistors for SPICE simulation	Shiv Kumar
48	NSNI-64	An Integrated Photodiode and Readout ASIC (Anudrishti)	Sourav Mukhopadhyay
49	NSNI-65	Design of a CMOS Wilkinson ADC "Anuroop" ASIC	Menka Sukhwani
50	NSNI-66	Design of a high speed 128-bin 500 Mhz Analog memory "Anusmriti" ASIC	Menka Sukhwani
51	NSNI-67	Design of a Front-end "Anusparsh" ASIC for Glass Resistive Plate Chamber for INO's ICAL Experiment	V.B.Chandratre
52	NSNI-68	Low power frontend ASIC (Anusuchak) for dosimeter using Si-PIN Detector	A. Darad
53	NSNI-69	Design and development of Multi-Pixel Photon Counter having enhanced Response for Blue and UV Light	V.B. Chandratre
54	NSNI-70	Singleplex ASIC based Neutron Flux Monitor featuring Web-Interface	Shailesh Khole
55	NSNI-71	An Ultra Low noise ASIC for SDD Pulse Processing	Sudheer K. Mohammed
56	NSNI-72	Design and development of Avalanche Photo diodes and Silicon Photo Multiplier	V.B. Chandratre
57	NSNI-75	Design & Development of FPGA based safety logic units for Fuel Handling Controls of 700 MWe PHWRs	Nitin Rimza
58	NSNI-76	Design and Development of Flow Visualization System using Particle Image Velocimetry	Nitin O Kawade
59	NSNI-77	Design and development of FPGA based CAMAC ADC Module	S. G. Kulkarni
60	NSNI-78	Detection of Gas Entrainment in Sodium using ECFM	G. K. Pandey
61	NSNI-79	Development of 300W, 2-30 MHz solid state RF power amplifier	Sujo. C.I.
62	NSNI-80	Development of a microcontroller based monitor for measurement of tritium in heavy water	V. Raja
63	NSNI-82	Development of Customized Multi-Channel Analyzer Hardware for Fissile Zone Identification System	C.P.Kulkarni
64	NSNI-83	Development of Pre-Startup Equipment for Light Water Reactors	Rajit Ram
65	NSNI-84	Embedded Alarm Unit for Reactor Protection & Other Safety Critical Applications in Nuclear Power Plant	P K Tamboli
66	NSNI-85	Energy and time response of CsI(Tl)-PIN detector for γ -rays and fission fragments	Y.K.Gupta
67	NSNI-86	Experimental Prototype Hardware Development of Signal Processing and Data Acquisition Electronics for Cargo Inspection Applications	C.P.Kulkarni
68	NSNI-87	FIZIDS Software Design and Features	Sandeep Bharade
69	NSNI-88	Mobile Application Development for Tele-ECG	Shikha Srivastava
70	NSNI-89	PSoC based Data Acquisition System for a Scanning Spectrometer	Sanjay P. Somkuwar
71	NSNI-90	Sodium Temperature Measurement using Ultrasonic Technique	C. Asokane
72	NSNI-91	State Based Control Design of MACE Console System	Sandeep Bharade
73	NSNI-92	CCD Camera based monitoring systems for TACTIC γ -ray Telescope	N. Chouhan
74	NSNI-93	Flux Mapping System for TAPS3 & 4: Software Perspective	Preetha M. Nair
75	NSNI-94	High Resolution Signal Conditioning and Measurement System using digital discrimination for low sensitivity sensors	Anil Kumar V
76	NSNI-95	Pulse Profile Digitization System for TACTIC γ -ray Telescope	N. Chouhan
77	NSNI-97	Nuclear Pulse Generator	M. Vinod
78	NSNI-98	New assisting device for handicapped using gaze detection based on Selective Region Expansion	Lekshmi Nair
79	NSNI-99	Functional Verification of Floating Point Arithmetic Unit	L. Srivani
80	NSNI-100	Field Programmable Gate Array based Verneir Power Meter for PFBR	Mohit Hada
81	NSNI-101	Development of Sensor for Measurement of Sodium Film Thickness over the Weir	Prashant Sharma
82	NSNI-102	Development of Hardware for Digital Low Level RF (DLLRF) Control System	Paresh D. Motiwala
83	NSNI-103	Design of a compact low power multi-channel HV supply & an active divider base for biasing photomultiplier tubes in MACE camera	A.Manna
84	NSNI-104	Central and Peripheral Pulse Morphology for Disease Characterization	R.K. Jain
85	NSNI-105	Side Viewing Software (SVS) for Under Sodium Ultrasonic System for PFBR	Jain R.K.

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1	Paper ID	Paper Title	First Author
86	NSNI-106	Reliability Analysis of Neutron Flux Monitoring System for PFBR	M G Rajesh
87	NSNI-107	The Concept of Power Correction Techniques and its use in the Reactor Regulation and Protection Systems in Indian PHWRs	P.D. Vaswani
88	NSNI-108	Telepresence for Improved Master Slave Manipulation	Meher Tabassum
89	NSNI-109	Software Feature Enhancements for Automated Scanning of Multiple Surface Geometry Objects using Ultrasonic Imaging System	Jain R.K.
90	NSNI-110	Ultrasonic Imaging of Discontinuities in Nuclear Structural Components	J. L. Singh
91	NSNI-111	Development of high fanout fast amplifier	Prafulla Satish
92	NSNI-112	Turbine & Steam Generator Data logger Using Ethernet Based Embedded System	N.Madurai Meenachi
93	NSNI-113	Sodium Testing of Side Viewing System (SVS) for Under Sodium Ultrasonic Scanner (USUSS) for PFBR	S.K.Lalwani
94	NSNI-114	Sandwich Veto Detector at COMPASS Experiment	S. Sarkar
95	NSNI-115	RF Control Electronics for 400 keV RFQ	Gopal Joshi
96	NSNI-117	Neutron Flux Monitoring System for PFBR	P V Bhatnagar
97	NSNI-118	Design of high-speed event acquisition for the MACE telescope using DRS ASIC	Sourabh Neema
98	NSNI-120	Data transfer scheme for high event rates for MACE camera	K. Jha
99	NSNI-121	COTAQ architecture for Multiparameter NADC and TDC for Pelletron-LINAC experiments	Saju Joy
100	NSNI-122	A novel delay scheme with Domino Ring Sampler ASIC for MACE camera	Saju Joy
101	NSNI-123	Assessment of Fundamental elements of health using impedance plethysmography	Prasanna Kelkar
102	NSNI-124	Development of a low energy spectrometer for mapping lunar chemistry	Anurag Tyagi
103	NSNI-125	Boron-10 lined proportional counters for reactor instrumentation	P.M. Dighe
104	NSNI-126	Generation of online test signals for Nuclear Instrumentation for PFBR	Rajit Ram
105	NSNI-127	Development of gamma compensated boron lined ionisation chambers for reactor safety and control applications	Mary Alex
106	NSNI-128	Development of Fission Counters for Start-up Neutron Instrumentation	V. Balagi
107	NSNI-129	Challenges Faced in Implementation of Control & Instrumentation System for New Zirconium Oxide Plant at NFC	M. SHIVA KUMAR
108	NSNI-130	An Efficient Routing Algorithm for Event Based Monitoring in a Plant using Virtual Sink Nodes in a Wireless Sensor Network	Sanjay Kumar Jain
109	NSNI-131	Tele-controlled Remote Safe Ultrasonic Probing System	J. K. Mukherjee
110	NSNI-132	Low Power Flux Logging System for TAPS 3&4	Rajesh Kumar Jain
111	NSNI-133	Development of SiC based Neutron Detector	D.Das
112	NSNI-134	Development of fast quad Constant Fraction Discriminator	Prafulla Satish
113	NSNI-135	Development of Digital Self Excited Loop	Gopal Joshi
114	NSNI-136	Development of a Charged Particle Detector Array in Pelletron-LINAC Facility	Bency John
115	NSNI-137	Development of a high level neutron coincidence well counter	S. Muralidhar
116	NSNI-138	Design and development of FPGA based multi-channel scalar	Nidhi Gupta
117	NSNI-139	Characterization of Cardiomegaly Disease from X-Ray Images Using Mean Shift based Image Segmentation	Deepak A. Kulkarni
118	NSNI-140	Charged Particle Spectrometer	Lalitha Abraham
119	NSNI-141	USB based Radiation Spectrum Analyser	M.Paulson
120	NSNI-142	Status Display Unit for Fuelling Machine Integrated Test Facility	Richa Pandey
121	NSNI-143	A compact high resolution TL emission spectrum Measurement setup	Ratna P.
122	NSNI-144	Development of low temperature TL Reader System for Studies on Photosynthetic and Phosphor Material	D.R.Mishra
123	NSNI-146	Development of a compact low power pulse processing electronics for radiation monitoring applications	V.Madhavi
124	NSNI-147	DEVELOPMENT OF AREA MONITORS CONFIRMING TO ANSI / IEC STANDARDS	J D Reddy
125	NSNI-148	Development of Custom LCD based Portable Survey / Contamination monitors	J D Reddy
126	NSNI-149	Standardization of beta dose rate using an extrapolation chamber for skin dose measurements	Vinatha S Panyam
127	NSNI-152	CHALLENGES AND ACHIEVEMENTS OF INSTRUMENTATION FOR FAILED FUEL IDENTIFICATION IN PFBR	CHANRAKANT

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1	Paper ID	Paper Title	First Author
128	NSNI-153	CONTROL LOGIC FOR REACTOR POWER SET BACK	CHANRAKANT
129	NSNI-154	DESIGN OF STARTUP NEUTRON DETECTOR HANDLING MECHANISM INSTRUMENTATION	CHANRAKANT UPADHYAY
130	NSNI-155	STATE OF THE ART SIMPLIFIED SHUTDOWN SYSTEM FOR FUTURE CFBR'S	M. SIVARAMAKRISHNA
131	NSNI-156	A new technique for making large area beta reference sources required for calibration of surface contamination monitors	Anuradha R
132	NSNI-157	Design of PLC Based OSL Reader System for Luminescence Dating Applications	Lovely Paliwal
133	NSNI-158	Maintenance Experiences with hand and foot monitor for monitoring alpha and beta radiation of personnel in NFC	A.Ramachandra Rao
134	NSNI-159	Design and Development of Wide Range Digital Neutron Flux Monitor	
135	NSNI-160	Performance of Refurbished Failed Fuel Detection System in CIRUS	Jacob John
136	NSNI-161	Development of PC based Data Acquisition System for Universal Test Machine	TSVR Nageswara Rao
137	NSNI-162	PC BASED REAL TIME DATA ACQUISITION AND DEFECT MARKING SYSTEM FOR PROBES ROTATING ULTRASONIC TESTING SYSTEM	TSVR Nageswara Rao
138	NSNI-163	Voice Commanded Intelligent Robot for Hot Cell Lighting	J.K.Mukherjee
139	NSNI-164	BARC's Medical Analyzer System for Fundamental Research in Homoeopathy	KC Muralaedharan
140	NSNI-165	FPGA implementation of Motion Controller for brushed DC motor	Vikas W.Meshram
141	NSNI-166	Micro-controller Based Measurement and Control for a 300W, 2-30 MHz Solid State RF Power Amplifier	Shyam Mohan
142	NSNI-167	A new method for testing high resolution nuclear ADC's	P. P. Vaidya
143	NSNI-168	Mobile Network Based Telemedicine for Rural Population	Vineet Sinha
144	NSNI-169	VALIDATING A COMMERCIAL SMART TEMPERATURE TRANSMITTER FOR SAFETY/SAFETY RELATED APPLICATIONS: A PROPOSAL	
145	NSNI-170	Signal Processing Device (SPD) for Networked Radiation Monitoring System	A. Dharmapurikar
146	NSNI-172	Development of Micro-controller based dual axis Servo-Controller card for Hydraulic Servo-actuators	Jay Shah
147	NSNI-173	Development of Instrumentation for Neutron based Landmine Detection	Tushar Roy
148	NSNI-174	Development of Air Equivalent Gamma Dose Monitor	Mary Alex
149	NSNI-175	Echelle spectrometer with CCD detector for Elemental analysis of Nuclear Matetials	
150	NSNI-176	Study of PIN Diode Based Pocket Dosimeter for Gamma and Beta Radiation	M D Lalsare
151	NSNI-177	Indigenously developed electronic pocket dosimeter for fast neutrons for use in personal dosimetry	M.D. Lalsare
152	NSNI-178	Fuel Element Radiometry System for Quality Control	Sadhana Bhattacharya
153	NSNI-179	Pulsed Eddy Current Technique for detection of defects in in-accessible Welded joints in coaxial tubular components with annular gap	T. V. Shyam
154	NSNI-180	Active Mirror Alignment Control System for the MACE Telescope	Priya Kurup
155	NSNI-181	MACE Telescope Servo Controller Design	Priya Kurup
156	NSNI-182	Distributed Data Acquisition and Heater Control System for Large Component Test Rig	M.Anbuchelian
157	NSNI-183	Experimental Validation of New Method of Temperature Compensation for MI Type Continuous Level Probe in Sodium	P.Vijayamohana Rao
158	NSNI-184	A novel insitu estimation of time constant for core temperature sensors in Fast Breeder Reactor	J.I.Sylvia
159	NSNI-186	EFFECT OF VARIATION OF CO2 IN FILL GAS ON FUNCTIONAL PERFORMANCE OF BORON COATED PROPORTIONAL COUNTERS	P. Girish Kumar
160	NSNI-187	Reconfigurable Monitoring System for SNM detection Using SPRT algorithm	Sadhana Bhattacharya
161	NSNI-188	Development of a method for the estimation of plutonium bearing alpha active waste present in 200 litre drums containing high beta	Sarbjit Singh