

35th IARP National Conference – 2025 (IARPNC2025)

29th January 2025 (Day 1) (15:30 – 16:30)

Abstract Id	Authors	Title
T1002	Praveen Dubey, Nitin Choughule, Alok Srivastava,	Industrial safety management practices to enhance safety culture in BARC
T1004	M.Manohari, S. Priyadharshini, K. Bajeer Sulthan, C. Venkata Srinivas,	Efficiency of Standing Whole-Body Monitor as a function of size
T1005	M.Manohari, S. Priyadharshini, K. Bajeer Sulthan, C. Venkata Srinivas,	Uninterrupted In-Vivo Monitoring and accurate dose estimation through Quality Assurance
T1006	M.Manohari, S. Priyadharshini, K. Bajeer Sulthan, C. Venkata Srinivas,	Optimum detector for the estimation of internal exposure due to fission products in case of both normal operations as well as emergency situations.
T1007	Madhusmita Panda, Shailesh Joshi, Anjali Verma, Annalakshmi O., C.V. Srinivas,	SMD chip resistors as effective thermoluminescent retrospective dosimeters
T1009	R. P. Rout, R. Mishra, R. Prajith, Arshad Khan, B. K. Sapra,	Development of a Si PIN diode based portable Radon Progeny Monitor
T1010	Jalaluddin Shah, Rosaline Mishra, Rajeswari Rout, Rama Prajith, Arshad Khan, B.K. Sapra,	Study of Track Parameters of a Particles with Different Energies in CR 39 Solid State Nuclear Track Detectors (SSNTD)
T1011	Asher Nebin R. T.,	Exhalation Rates of Radon and Thoron Gases from Kalpakkam, Parangipettai and Kanyakumari Beach Sand Samples: A Comparative Study.
T1012	Kondala Rao R., Jasmin Sudha A.,	Development and validation of a finite angle method based 3D multi-group neutron transport model for criticality and shielding analysis of nuclear facilities
T1013	Srilakshmi B P,	Engineering Silicone Rubber based Polymer Composites with multifillers for Enhanced Gamma Shielding, Thermal and Mechanical Properties
T1014	Bathula Sreekanth, Sagar Baraiya, Sharma M K, Probal Chaudhury,	Comprehensive Impact Assessment of Radiological Dispersal Device (RDD) Scenarios: Addressing Conventional and Radiological Effects
T1015	Vivek Kaushik, Sabyasachi Paul, S Anand, Sunder Sahayanathan,	Calculations of effective radiation quality factors for high-energy cosmic rays
T1016	Shreenivas Vaikuntam, L.Guneshwor Singh, Diksha..Pant, Aditi.C.Patra, Tirumalesh Keesari, Ajay Jaryal, Hemant Mohokar,	Radiological Protection Measures during H-3 Tracer preparation & Injection for Hydrological Investigations
T1017	Jayashri B Mutagar, B.R.Kerur,	Estimation of natural radioactivity and Assessment of radiation hazard indices in soil samples of Dharwad District Navalgund of Karnataka, India.
T2003	Kailash Gharat,	The Influence of Visual Media on Radiation Safety Perception
T2006	Yuvaraj N,	Health Physics experience during In-Service Inspection of Waste Vault at CORAL

T2007	D Karthikeyan,	Development of indigenous alpha spectrometry software (IGASPEC) for revamped alpha detection system
T2009	S. A. Yadav, P. T. Ghare, Bhaktinayagam A, Vivek Kaushik, A. M. Govalkar, D. P. Rath, Ashokkumar P.,	Estimation of shielding factors for various photon energies using lead impregnated aprons
T2010	S K Nayak, J P N Pandey,	Analysis of the Shielding adequacy of PHWR Spent Fuel Shipping Cask
T2014	Shailesh. M, Sanjay S, H C M Pillay, R V Kolekar,	Tailor-Made Electroplated Calibration Sources for Alpha Counting of Air Samples
T2015	Saparya Chattaraj, Hemachandar V., D.K. Patre, D.P. Rath, Ashokkumar P. ,	Variation in Short-Lived Air Activity in a Radiochemical Laboratory: Dependence on Relative Humidity and Temperature
T2016	Vivek Bara, Deepika Jat, Tanmoy Das, Rajesh Kolekar,	Qualitative Assessment of Uranium samples using CZT Detectors
T2017	Minal Y. Nadar,	Inherent ¹³⁷ Cs contamination in the CsI(Tl) crystal of Phoswich detector
T2018	Bikash Chandra Muduli, Sampanna Panigrahi, Rakesh Tiwari, Hemant Sharma, K. Kannan, V. Ramprasath, J. P. N. Pandey,	Shielding Evaluation of Ion exchange Resin Bed designed for removal of radioactive Cs-137 from active process condensate water in Reprocessing
T2019	Dhananjay K. Pandey, Neeraj Parashar, Abinash Chakraborty, Pankaj Kumar, U. V. Deokar, J. P. N. Pandey,	Implementation of ALARA during replacement of HAWE Heat Exchangers at Reprocessing Plant
T2020	Dinesh K. Patre, Hemachandar V., Saparya Chattaraj, D. P. Rath, Ashokkumar P.,	Study on the leaching of radioactivity from soil samples into aqueous soluble matrix
T2021	S C Sharma , Kanhaiya Jee, R N Dubla, A B Chakane, Kirti, Pankaj Kumar, J P N Pandey,	Determining Self-Absorption Coefficients in Glass Fiber Filters for MOX fuel fabrication
T2022	Ram Sharma, B. Suresh, Vikas Kumar, S.Murugan, J. P. N. Pandey,	Study on Distribution of Activity Profile in Exhaust Filter
T2023	Anoj Kumar, D K Pandey, U V Deokar, J P N Pandey,	Measurement of Radon and Thoron Concentrations at reprocessed U3O8 Storage facility
T2024	Ashish Kumar Singh, U.V.Deokar, A.R.Khot, P. Mathew, J. P. N. Pandey,	Particle size distribution analysis during SS lining cutting of vitrification cell floor
T2025	Mohua Pal, Sanjay Singh, S. Anand, Sureshkumar M K,	Experimental Study on Aerosol Transport and Temporal Evolution in a Mechanically Ventilated Chamber
T2026	Sudheer Nair T, M.K. Sureshkumar, A. Deepa, Kiran K. Padda, Keyur C. Pancholi, G. Anand	Significance of Dose Estimation and Radiological Data Analysis in Safe Management of High Active Spent Resins
T2027	Saurav, Lalit K Vajpyee, Sajin Prasad, Ras Bihari Rakesh,	Quantification of Radioactivity and Its Correlation with Surface Dose Rate of Waste Drums Containing Exhausted Mixed Bed Resin from the PCW Purification System of a Research Reactor

T2029	Neeraj Parashar, Abinash Chakraborty, D. K. Pandey, U. V. Deokar, J. P. N. Pandey,	Evaluation of Dilution factors for airborne radioactivity during in-cell works in PUREX Process cells
T2030	M T Valvi, Sajin Prasad, Sanjit Pal, N.S.Bhamra,	Health physics surveillance and experience gained during the removal of activated corrosion deposits from liquid poison injection system
T2031	Sonali P.D.Bhade,	Standardization of TDCR based Liquid Scintillation and Cerenkov counting techniques for estimation of ¹⁰⁶ Ru in various plant samples
T2032	Lokpati Mishra,	Statistical Analysis of Background Lung Monitoring Data using Phoswich Detector
T2034	Clinton S.A. Fernandes, Susheela Sivakumar, Sureshkumar M.K., Tapas Das,	Preliminary Investigation of the Transdermal Penetration of Ruthenium-106 Chloride
T2035	Sarjan Singh,	Uranium Mobility from Mill Tailings under Environmental Conditions
T2037	Rabindra Nath Juine, Bikash Muduli, G M Rao, K Kannan, Lakshmi Narayanan, Anshuman Singha Roy, Tarit K Mandal, V. Ramprasath, J. P. N. Pandey,	Evaluation of detector position and alarm set point for off-gas HEPA filter replacement
T2038	Soumendra Pattanayak, Pankaj Kumar, D P Rath, Ashokkumar P,	Effectiveness of Borated HDPE Shielding in Neutron Dose Reduction
T2039	P.S.Sharma, L.Guneshwor Singh, S.Anand,	Criticality safety evaluation of a MOX material handling facility
T2040	Kamlesh, Ashish K. Singh, K. K. Singh, P. Mathew, U. V. Deokar, J. P. N. Pandey,	Exposure control and ALARA implementation during LLW process tank painting
T2041	Atul Govalkar, Bhaktivinayagam A, P T Ghare, S A Yadav, Vivek Kaushik, Soumendra Pattanayak, D P Rath, Ashokkumar P,	Performance Evaluation of Composite Alpha-Beta Contamination Monitoring Devices
T2042	Dr. T.K. Srinivasan,	Estimation of activity in irradiated Nickel Subassembly of FBTR by HPGe based gamma spectrometry
T2043	B. Vijayakumar, M Balamurugan, I V Saradhi,	A review on internal dose monitoring program at Kudankulam Nuclear Site
T2044	B. Vijayakumar, A V Sathish, I V Saradhi,	Public outreach programs at Kudankulam Nuclear Power Project
T2046	K. K. Singh, Ashish K. Singh, U. V. Deokar, J. P. N. Pandey,	Radiological safety unveiled: Surveillance and exposure control in SPNDs emplacement
T2047	Jayasudha M, Veerendra D, Dr Jayaram U K, Ayan Mukhopadhyay, Vinod Kumar B, Pathak R G, Sunil G K,	Performance evaluation of various scintillation solutions for estimation of C-14 activity in different strengths of sodium hydroxide from gaseous effluents of Kaiga Generating Station-3&4
T2048	K Bajeer Sulthan, M.Manohari, S. Priyadharshini, J.Mohan, M.V. Kuppusamy, K V Rajkumar,	Quality Assurance program for fabrication of graded shield room for actinide monitor
T2049	Chandan Kumar, B.Suresh, S. Murugan, J.P.N. Pandey,	A Validation Study to Confirm Homogeneity of Radioactivity and Establish Dose Rate- to-Activity Conversion Factor for Cemented Waste Product Containing Treated Organic Liquid Waste

T2050	S. Selvaganapathy, B. Suresh, Vikaskumar, S. Murugan, J.P.N. Pandey,	Optimisation of Detector-to-Sample Distance for Quantification of Gamma Activity in a High Active Sample of Vitrified Waste Product
T2053	Chitra Subramanian, Arti S. Mhatre, Praveen Kumar , Pradeep Bhargava,	A study of ¹⁴ C generation in hematite concrete for NPP decommissioning
T2054	K.Sreekumar,	Experience with LoRa TM Based Teledosimeters for Dose monitoring and Control
T2055	Veerendra Danannavar,	Study on corrosion products, control measures and radiation safety at Kaiga Generating Station-3&4
T2056	Samim Molla, V. S. Srivastava, A. C. Patra,	Geopolymer concrete from uranium mill tailings: A study on physical, mechanical, and radiological properties
T2058	Sandeep Kumar Tiwari, A.P.Singh, Sanjay Kumar, Sanjeev Kumar, V.P.Singh, S. K. Pal, Rakesh Tewari, K. Venkataramana	Experimental study on use of Tritium activity as a tool for identification of leaky Coolant Channel
T2059	Deepak Nayak, Ramdas Mharse, Gourab Goswami, Ps Raveendran, V Parashar, R Murali, K Venkata Ramana,	Usage of different types of shield plugs for shielding of retained portions of reactor recirculation loop opening
T2060	Suman Choudhary, Archana Raut, B K Rautela, P S Raveendran, V Parashar, R Murali, K Venkata Ramana	Health Physics Operating Experience In Waste Handling During Recirculation Loop Replacement Works At TAPS 1 & 2
T2062	S. Murugan	Estimation of effective dose from Radon and Thoron air activity during maintenance of tray drier at Uranium Oxide Facility
T3001	Sherry Shajan Kuttakaran, Ambika M. R, Nagaiah N., Srilakshmi B. P, Deepika D. N,	Novel Trilayered Polymer Composite - A radiative protective medical wear
T3002	Ramaniyavaraj, M.Menaka,	Gamma Irradiation studies in the field of Medical, Industrial and Agriculture at IGCAR.
T3003	Dilip K Gupta, Haridas G, R K Sahu,	Integrated photon dose measurement in Zone -2 areas in Indus Accelerator Complex
T3004	Anandakumar,	Effect of UV-C Radiation and Edible Coating on Controlling Sprouting in Potato
T3005	Arup Singha Roy, M Sengupta Mitra, G Haridas,	Radiological Assessment of Soil Samples around K130 and K500 Cyclotron Vaults
T3006	Satish K Mishra, Arup Singha Roy, Riya Dey, Mausumi Sengupta Mitra, G Haridas,	Preliminary Dose Assessment inside vault during Operation and Maintenance of K-500 Cyclotron at VECC
T3007	D N Sangeeta , Menaka,	Role of Retention Efficiency Testing of filter banks for controlling effluent release in Fast Breeder Test Reactor
T3009	Vipin Dev, Prasanta Kumar Sahani, Sumit Kumar, Taruni Kumar Sahu, Mahendra Kumar Nayak, Dilip Kumar Gupta, Haridas G, Prabhat Kumar Gupta, Rajesh Kumar Sahu,	Radiological status of HTS facility at RRCAT, Indore

T3010	Reena Sharma, Shivani,	In Vivo Dosimetric Analysis of VMAT Total Body Irradiation Patients using Optically Stimulated Luminescence Dosimeters
T3011	Riya Dey, Arup Singha Roy, S K Mishra, M Sengupta Mitra, G Haridas,	Impact of Wall Scattering and Maze Geometry on Neutron Dose Distribution in a Proton Irradiation Cave
T3013	Pratap Singh, Arijit G, R. K. Mondal, S. K. Suman, K. A. Dubey, Y. K. Bhardwaj,	Effect of morphology of Bismuth Oxyiodide based flexible composites on high-energy radiation attenuation
T3015	Mahendra K, Yashodhara I,	Effect of Gamma irradiation on the structural, optical and electrical properties of Cadmium Sulphide nanoparticles
T3016	Biju Keshavkumar, Vitisha S. Dagle, Srinivasan P.,	Neutron yield and spectrum from photo-fission target by 50 MeV electron bremsstrahlung
T3018	Tanmay Sarkar, S S Suman, S Anand,	Comparative shielding efficacy of composite materials as lead alternatives for gamma shielding
T3019	Nitin Bhosale,	Dose Rate Assessment and Shielding Thickness estimation for 6MeV LINAC Facility
T3021	Liji Shaiju, Sunil K Singh, Aashna Gupta, Soumen Dey, Sneha C, Probal Choudhury,	Assessment of Lead Equivalence in Lead glass used for Radiation Shielding Applications
T3026	L. Guneshwor Singh, Ghanashyam Sahani, Jolly Joseph,	Radiological impact assessment of radioactive waste discharged from Nuclear medicine facilities
T4001	Deepika D N, Ambika M R, Nagaiah N, Karunakara N,	Investigation on the activity concentration of alpha emitters in the groundwater samples- A study from the southwestern part of Bengaluru, Karnataka, India
T4003	Kalaiselvi S, Jashi K B , Pandaram P,	Effectiveness of annealing using Oven with PID based controller and conventional controller – A comparison
T4008	Rahul Roy, Rajesh Sankhla, J.R. Yadav, Pramilla D. Sawant,	Counting efficiencies of Quick Scan Whole Body Monitor for adult and paediatric reference computational phantoms
T4009	Nanda Raveendran, Smita Thakur, J.R. Yadav, Pramilla D. Sawant,	Radiochemical estimation of ²²⁶ Ra in urine sample
T4012	Kothai Parthasarathy, Ramani Yuvaraj,	Study on the Response Characteristics of Bubble Detector with respect to Rem Counter in Neutron Detection
T4013	Bommadeni Arun,	Investigation of modified Fricke dosimeter for low-dose irradiation applications
T4014	Nishasri S , Sureka Cs , Thirunavukkarasu V, Gurusaravanan P, Priya Dharshini T ,	In-vitro study on the potentiality of Traditional Black Seeds and Indian Black Berry extracts as Natural Radio Protectors
T4015	Sugumar P,	Study on measurement of anisotropy factor for a sealed ¹⁸⁵ Gd Am-Be source
T4017	P. Venkatraman, C.S. Sureka,	Clinical and Economic Considerations of Kilovoltage Arc Beam Therapy
T4018	S K Nayak, B C Muduli, Rakesh Tiwari, J P N Pandey,	Performance Evaluation of Electronic Personnel Dosimeter for Neutron Dose Equivalent H*(10) Measurement using different Neutron sources

T4019	Sandeep K. Patil,	Field study to correlate photon radiation category with data of ratio of disc response of thermoluminescence dosimeter at nuclear fuel processing facility
T4020	Pankaj Kumar,	Assessment of Whole-Body and Extremity Radiation Dose Correlation in MOX Fuel Fabrication
T4021	R N Dubla, A B Chakane, J B Kumawat, Kirti, S Sharma, Pankaj Kumar, J P N Pandey,	Inter-comparison of passive & active personal dosimeter for multiple gamma energies at MOX fuel fabrication
T4022	P. Venkatraman, C.S. Sureka,	Comparison of Kilovoltage Arc Beam Therapy and Volumetric-Modulated Arc Therapy Using Monte Carlo Simulation
T4024	Sridhar Sahoo, T. Palani Selvam,	Monte Carlo calculation of dose deposition kernels for ^{32}P and $^{90}\text{Sr}/^{90}\text{Y}$ beta sources used in nuclear medicine therapy
T4026	T.Krishnamoorthi,	The effects of physicochemical properties on gamma emitting natural radionuclide levels in the soil of Tirunelveli District, Tamil Nadu, India
T4027	Charubala C S,	Estimation of Cs-137 Body Burden in Externally Contaminated Radiation Workers
T4029	P.G. Shetty,	Preoperational environmental gamma radiation monitoring around upcoming GHAVP nuclear power plant, Haryana.
T4030	R.A. Takale,	Analysis of operational gamma radiation monitoring in relation to baseline data in and around Kudankulam Nuclear Power Plant, Tamil Nadu
T4031	Vivek Kaushik, Sabyasachi Paul, S Anand, Sunder Sahayanathan,	Quality Factors for Proton Radiation: A Monte Carlo Study Using ICRP Reference Computational Phantoms
T4032	S. P. Prabhu,	Screening procedure for gross alpha emitters in urine using extraction chromatography
T4033	H.K. Patni, P. K. Singh, D.K. Akar, P. D. Sawant,	Organ S-values for ICRP Adult Reference Mesh Phantoms due to ^{131}I Present in Thyroid
T4034	Vandana P. Ghare, H.K. Patni, D.K. Akar, Pramilla D Sawant ,	Impact of Revised Biokinetic Models on Dose Calculations for ^{137}Cs
T4036	Deepak Kumar, Y P Gautam, S Kumar, J Kumar, A K Sharma, B Singh, V Kumar,	Validation study of the Quick scan whole body monitor for In-Vivo Measurement at Narora Atomic Power Station
T4037	Suma Nair,	Estimation of Gut absorption factor of Uranium in Adult Indian population using the data on Daily Intake and Urinary Excretion
T4038	Rupali Dubla, Nanda Raveendran, Ranjeet Kumar, J.R.Yadav, Pramilla D. Sawant,	Sequential separation of Uranium and Plutonium in urine sample using DGA resin
T4039	S. K. Tibrewala, U. V. Deokar, J. P. N. Pandey,	Intercomparison of ambient and directional dose equivalents in a typical nuclear facility
T4040	Suja A. Kumar, B. Mahanty, A. Bhattacharyya, P.D. Sawant,	Polyoxometalate (POM) based composite material for the extraction of americium: Photoluminescence study
T4041	Tarak Nath Nag, V. S. Srivastava, Aditi C Patra,	Radiological assessment of Banduhurang open cast mine in Jharkhand, India

T4042	Aashna Gupta, Sunil K. Singh, Liji Shaiju, Soumen Dey, Sneha C., Probal Chaudhury,	Uncertainty evaluation for the calibration of radiation monitors
T4044	Mannu Mann, Smithri Manilal, Jpn Pandey,	Comparative Study of Alpha Spectrometry and LED Fluorimetry for Uranium Bioassay
T4045	Bose Nathaniel V,	Feasibility Study Of Using KVCBCT Images As Patient Specific Quality Assurance Tool.
T4047	Jomol Thomas,	Dosimetric Assessment Of 6 FF, 6FFF Beam Volumetric Modulated Arc Treatment Plans For Nasopharyngeal Cancer With And Without Multi-Criteria Optimization
T4048	Rajesh Sankhla,	Development of standalone Wound Monitor for High Energy Photon Emitters
T4049	Manohari M, S.Priyadharshini, C Venkatasrinivas,	Equivalent doses to different organs due to external exposure to ¹³⁷ Cs point source
T4050	B.M.Chandrika,	Empirical relation for mass attenuation coefficients for Lead and Bismuth nanocomposites
T4051	Chandra,	Study of Structural, Compositional and Optical Properties Evolution in β -TeO ₂ Thin Film with Gamma Irradiation for Dosimetry Application