DENIM XV ARG2026

ISNIE LAHN LABORATORIO ARGENTINO DE HACES DE NEUTRONES Comisión Nacional de Energía Atómica

PROGRAM

SEP 8-10, 2026

BUENOS AIRES, ARGENTINA

TUE, SEP 8

DENIM XV MAIN MEETING

IFIByNE

08:30	**REGISTRATION**	
09:00	**OFFICIAL WELCOME**	
10:00	**1ST PLENARY** Evolution of neutron beam instrumentation in Argentina: from early Neutron Physics spectrometers to the LAHN Facility at RA-10 - *Javier Santisteban*	
10:30	Coffee Break	
11:00	**1ST SESSION**	
	11:00 – 11:15	NOMAD Secondary Collimation Project Update: From Additive Manufacturing Concepts to a B_4C Sheet-Metal Design - *Cassandra Scully*
	11:15 – 11:30	LEU Fission Plate Design for Order-of-Magnitude Enhancement of UCN Density at LANL - *Christopher O'Shaughnessy*
	11:30 – 11:45	Beam axis – Definition, communication, best practice - *Janno Büchi*
	11:45 – 12:00	Neutron Guide Replacement under Extreme Space Constraints - *Elbio Calzada*
	12:00 – 12:30	Novel Collimator Features for SKADI at ESS: Beam Shaping and Operational Efficiency - *Sylvain Desert*
12:30	Lunch	
14:00	**2ND SESSION**	
	14:00 – 14:20	Australian centre for neutron scattering development plans - *Stan Lee*
	14:20 – 14:40	Development of a detector housing for the SKADI instrument at ESS - *Romuald Hanslik*

	14:40 – 15:00	FPGA-BASED multichannel signal generator for emulation of neutron detector - *Alejandro Pinto*
	15:00 – 15:30	Cartographic measurements of neutron backgrounds at the Institut Laue-Langevin - *Charles Dewhurst*
15:30	Coffee Break	
16:00	**3RD SESSION**	
	16:00 – 16:15	Seismic Analysis Criteria and Methodology for Shielding Components in Neutron Instruments: A Case Study - *Agustín Hernández Rocha*
	16:15 – 16:30	Scattering Chamber Design for the Cold Neutron Direct Geometry Inelastic Spectrometer at CSNS-II - *Songwen Xiao*
16:30	**DENIM CHALLENGE**	
18:00	**WELCOME TOAST**	
20:00		

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WED, SEP 9

DENIM XV MAIN MEETING

IFIByNE

09:00	**2ND PLENARY** Shaping the Future of Neutron Science: ILL's Science Strategy and Long-Term Vision - *Jacques Jestin*	
09:30	**4TH SESSION**	
	09:30 – 09:45	Challenges faced when 3D printing shielding components for neutron instruments - *Joel Allan Hodder*
	09:45 – 10:00	To make something new out of the old - *Benjamin Giroud*
	10:00 – 10:15	Post-HBRR Common Vacuum Housing Shielding on HB4 at the High Flux Isotope Reactor - *Kyle Grammer*
	10:15 – 10:30	Generation of correlated surface source distributions for Monte Carlo shielding calculations - *Santiago Bazzana*
10:30	Coffee Break	
11:00	**5TH SESSION**	
	11:00 – 11:15	Post-Endurance instruments projects at the ILL - *Giuliana Manzin*
	11:15 – 11:30	Moderator Test Station at the Spallation Neutron Source: Final Design, Project Lessons Learned, and Path to Operations - *Kevin Johns*
	11:30 – 11:45	Development and implementation of neutron instruments in RA-10 Reactor - *Martin Gonzalez Fuster*
	11:45 – 12:00	ORNL HFIR Cold Triple Axis Drum Reuse for MANTA - *Greg Warren*
	12:00 – 12:15	Development and implementation of ASTOR instruments in RA-10 Reactor - *Alejandro Fasciszewski*
	12:15 – 12:30	LoKI's Transition to Operations: Commissioning, Upgrades, and Operational Readiness of ESS's First SANS Instrument - *Hannah Burrall*
12:30	Lunch	
14:00	**POSTER SESSION (*)**	
15:30	Coffee Break	

16:00	**6TH SESSION**	
	16:00 – 16:15	EPICS-Based Sample Environment, Data Acquisition, and Controls Across Spallation Neutron Source Beamlines - *Mariano Ruiz*
	16:15 – 16:30	Integrated Design for Neutron Instrument Shutter Control: Fail Safe Hardware and PLC Programming Best Practices - *Jorgen Miller*
	16:30 – 16:45	State-Based Automation of the Monochromator Shielding Device for the ANDES Neutron Diffractometer - *Fernando Burgos*
	16:45 – 17:00	Frontiers of Artificial Intelligence: From Automation in Scientific Instrumentation to Predictive Safety - *Leonardo Ibáñez*

WED, SEP 9

20:00	**CONFERENCE DINNER**
23:00	

CONFERENCE DINNER
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THU, SEP 10

DENIM XV MAIN MEETING

IFIByNE

09:00	**3RD PLENARY** Boosting Scientific Value Through Instrument Relocation - *Gabriela Aurelio*
09:30	**7TH SESSION**
	09:30 – 09:45 Status of the SNS Second Target Station Project at Oak Ridge National Laboratory - *David Anderson*
	09:45 – 10:00 Twenty Years of Operating Neutron Instruments at the OPAL Reactor in Sydney - *Scott Olsen*
	10:00 – 10:30 Engineering Better Neutron Instruments through Structured Project Management - *Tania Claudio Weber*
10:30	Coffee Break
11:00	**8TH SESSION**
	11:00 – 11:15 Mechanical Design Verification of the ANDES Instrument Using Metrology and Performance Testing - *Fernando Burgos*
	11:15 – 11:30 Metrology in the Assembly of LAHN: Tolerance Analysis for Neutron Beams HAZF1 and HAZT1 Characterization - *Ezequiel Anacoreto*
	11:30 – 11:45 Precision Positioning Systems for ANDES Diffractometer - *Santiago Javier Pincin*
	11:45 – 12:00 Development of in-kind / in-house built 130 m long neutron transport beamline - *Fernando Yamil Moreira*
	12:00 – 12:15 FermiChopper NECTAR (TUM FRM2) - *Rudolf Schütz*
	12:15 – 12:30 Challenges during the upgrade of a Neutron Velocity Selector - *Zsolt Ludanyi*
12:30	Lunch
14:00	**MAIN SPONSOR -** Mayor of San Francisco City
14:30	**9TH SESSION**
	14:30 – 14:45 Return to Science at the NIST Center for Neutron Research - *Daniel Adler*
	14:45 – 15:00 Preparing the FRM II Instrument Suite for Reactor Restart: A Framework for Readiness Assessment - *Aureliano Tartaglione*
15:00	**4TH PLENARY** The Argentine Neutron Beam Laboratory: Historical Evolution, Current Status, and Future Perspectives - *Karina Pierpauli*
15:30	Coffee Break
16:00	**DENIM 2026 OFFICIAL CLOSING / PRESENTATION OF DENIM 2027**
16:20 17:00	**ISNIE BOARD MEETING**

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SABATO

WED, SEP 9

(*) POSTER SESSION

IFIByNE

14:00	New nutator for spherical neutron polarimetry - *Adrian Nyc*
	Design of the Bulk Insert Adjustment Mechanism for the CSNS-II#3 Liquid Neutron Reflectometer - *Wenxin Peng*
	Engineering Progress on the Liquid Neutron Reflectometer at CSNS - *Wenting Du*
14:10	The essential partnership: collaborative efforts between design engineers and engineering technicians - *Doug Johnson*
	Upgrade of the Compact Rotary Platform for the KOMPASS Helmholtz Coil System: Integration of a Non-Magnetic Worm Gear for Torque Enhancement - *Manuel Müller*
	Shutter Design for the Primary Beam of the LaDiff Triple-Axis Spectrometer - *Daniel Zahreddin*
14:20	Diffractometer for residual stress analysis instrument upgrade - *Ed Binkley*
	Vertical drive for two polarizers at RESEDA (Project TIGER (Thermal mIeze for GreatEr Ranges)) - *Christian Fuchs*
	Rotation Stress Rig for Combined Tensile–Torsional In Situ Neutron Imaging and Diffraction at ESS - *Luca Sagliano*
14:30	Thermal Neutron Three Axes Spectrometer PUMA: Recent Instrumentation Development - *Yongjin Kim*
	Design and Manufacturing of an Helium-3 Gas Transfer System for the CSPEC Detectors at ESS - *Antoine Lepine*
	Development and integration of Control Systems and metrology for neutron instrumentation: applications in ANDES and ASTOR - *Felix Maciel*
14:40	“AnGI”, the new Instrument for Prompt Gamma Neutron Activation Analysis (PGNAA) at the RA-6 Research Reactor, Argentina. - *Fernando Ariel Sánchez*
	Evaluation of Alternative Materials for the T0 Chopper Hammer Using PHITS - *Ryota Komine*
	SNS Survey, Alignment, and Metrology - *Derek Doane*
14:50	Collimation system design for the BIAR diffractometer at the IEA-R1 reactor - *Luiz Paulo de Oliveira*
	The first high-fidelity Monte Carlo model of the Brazilian IEA-R1 nuclear reactor - *Alexandre Souza*
	Design of a replacement Optical Bench and new Polariser for the Pelican Inelastic Instrument at ANSTO - *Scott Olsen*
15:00	NAHUEL: A new time-of-flight instrument installed at the Experimental Reactor RA-6 at Centro Atómico Bariloche - *Luis Alberto Rodríguez Palomino*
	Multiscale Dot Patterns and a Scalable Calibration Framework for Geometric Distortion Characterization in Neutron Imaging - *Peter Zabala Medina*
	Proof-of-Concept Demonstration of a Polychromatic Multiplexed Neutron Stress–Strain Diffractometer at the MIT Reactor - *Jay T. Cremer*
15:10	Optimization of the Neutron Beam Slit Aperture Assembly for an Ultra Narrow Design - *Scott Olsen*
	Two Stage Gamma-Neutron Source Classification in Water Cherenkov Detectors: Energy Threshold Screening and Machine Learning Pulse Analysis - *Alejandro Said Núñez Selin*
	SANS-MB: intrumentación para la dispersión de neutrones a bajo ángulo del LAHN - *Fernando Pschunder*
15:20	Thermal analysis and design optimization of the ANDES sample chamber using FEA - *Lucas Mariano Montenegro*
	Experimental testing to define the sliding floor specifications for the ANDES Instrument - *Emanuel Adrian*
	Neutron Guide Performance Evaluation for the LAHN High-Resolution Powder Diffractometer Using a KDS-Based Neutron Source - *Diego G. Franco*
	Stakeholder Management and Planning–Execution Alignment in Scientific Megaprojects with In-Kind Contributions - *Tamires Gallo*