

Session Program

13–17 Apr 2026



ICANS XXV

Technical talks

Clarion Hotel Malmö Live, Live 1, 2 & 3
Dag Hammarskjölds Torg 2, 211 18, Malmö

Monday 13 April

13:30

Technical talks: Accelerator I

Session | Location: Clarion Hotel Malmö Live, Live 3 | Convener: Nicholas Evans

13:30–13:50

New Front-End Design Requirements for LANSCE Neutron Sources: LAMP's Role in Sustaining High-Quality Beam to the Lujan 1L Target

Speaker

Chalres Taylor

13:50–14:10

Development of the DUMP-OT for MYRRHA phase I accelerator

Speaker

JORGE GARCIA TORTOSA

14:10–14:30

The RF linac dedicated to boron neutron capture therapy at IHEP

Speaker

Mr Yongchuan XIAO

14:30

13:30

Technical talks: Facility Status I

Session | Location: Clarion Hotel Malmö Live, Live 2 | Convener: Toshiya Otomo

13:30–13:50

ESS target station project update

Speaker

Rikard Linander

13:50–14:10

Status and upgrade plan of the pulsed spallation neutron source at MLF, J-PARC

Speaker

Masahide Harada

14:10–14:30

The Operation Status and upgrade of CSNS Target Station

Speaker

Prof. Wen Yin

14:30

13:30

Technical talks: Scattering Instruments: Diffraction

Session | Location: Clarion Hotel Malmö Live, Live 1 | Convener: Masatoshi Arai

13:30–13:50

The Progress of the Multi-Physics Instrument at CSNS

Speaker

Huaican CHEN

13:50–14:10

Feasibility study of a single crystal diffractometer for biological macromolecules at a High Brilliance neutron source

Speaker

Dr Jialian He

14:10–14:30

Construction Progress of Laue-Orientation Neutron Imaging Device

14:30	<p>Speaker Yuhua Ma</p>
14:50	<p>Technical talks: Facility Status II Session Location: Clarion Hotel Malmö Live, Live 2 Convener: Rikard Linander</p> <p>14:50–15:10 15 Years of Operational Experience with the Ultracold Neutron Source UCN at PSI</p> <p>Speaker Bertrand Blau</p> <p>15:10–15:30 Status of CSNS neutron instruments</p> <p>Speaker Prof. Tianjiao Liang</p> <p>15:30–15:50 Operational Status of the Los Alamos Neutron Science Center (LANSCE)</p> <p>Speaker Mr Eron Kerstiens</p>
15:50	<p>Technical talks: Neutron Moderator I Session Location: Clarion Hotel Malmö Live, Live 3 Convener: Alan Takibayev</p> <p>14:50–15:10</p> <p>Conceptual Neutronics Desing of a Coupled Solid Methane – Supercritical Parahydrogen Moderator and the Importance of Neutron Data Selection</p> <p>Speaker Lukas Zavorka</p> <p>15:10–15:30</p> <p>New para-hydrogen cold neutron source at the Budapest Research Reactor: Monte Carlo simulations</p> <p>Speaker Dr Dmitrii Shapiro</p> <p>15:30–15:50 Neutronic study of Hydrogen Deuteride as a Cold Neutron Moderator</p> <p>Speaker Nicola Rizzi</p>
15:50	<p>Technical talks: Scattering Instruments: Modelling I Session Location: Clarion Hotel Malmö Live, Live 1 Convener: Nicolo Violini</p> <p>14:50–15:10 An overview of new developments in McStas</p> <p>Speaker Mr Peter Willendrup</p> <p>15:10–15:30</p> <p>Updating the MCNP Guide Extension with supermirror absorption and neutron polarization</p> <p>Speaker Franz Gallmeier</p> <p>15:30–15:50 Update on the NCrystal project for modelling thermal neutron interactions</p> <p>Speaker Thomas Kittelmann</p>

16:00

Technical talks: Facility Status III

Session | Location: Clarion Hotel Malmö Live, Live 2 | Convener: Eron Kerstiens

16:00–16:20 **Update on ISIS Targets: Analysis and Operating Experience****Speaker**

Dan Wilcox

16:20–16:40 **The Budapest Neutron Centre Serving Science and ESS construction****Speaker**

Szabina Török

16:40–17:00 **Achieving a Balanced Radiation Safety Case for the ESS Target Station****Speaker**

Linda Coney

17:00

16:00

Technical talks: Neutron Moderator II

Session | Location: Clarion Hotel Malmö Live, Live 3 | Convener: Steve Lilley

16:00–16:20 **Characterization of Solid Pre-Moderators for Coupled Cold Neutron Sources****Speaker**

Franz Gallmeier

16:20–16:40 **Design and operation of a 1-dimensional para-hydrogen cold neutron moderator****Speaker**

Ulrich Rücker

16:40–17:00 **McDakDriver for Optimization and Uncertainty Quantification of Pulsed Neutron Systems****Speaker**

Franz Gallmeier

17:00

16:00

Technical talks: Scattering Instruments: Modelling II

Session | Location: Clarion Hotel Malmö Live, Live 1 | Convener: Peter Willendrup

16:00–16:20 **Multiple time sampling for Monte Carlo ray-tracing instrument simulations****Speaker**

Mads Bertelsen

16:20–16:40 **A liquids plugin for NCrystal****Speaker**

Douglas Di Julio

16:40–17:00 **Advances in Neutron Instrument Simulation with VITESS: Release 3.7 and 3.8****Speakers**

Fabian Beule, Nicolo Violini

17:00

Tuesday 14 April

15:20

Technical talks: Radiation Shielding

Session | Location: Clarion Hotel Malmö Live, Live 3 | Convener: Douglas Di Julio

15:20-15:40 **Radiation shielding analysis for the ISIS Endeavour programme**

Speaker
Steve Lilley

15:40-16:00

Development of a shielding concept for the High Brilliance neutron Source (HBS) target station at Forschungszentrum Juelich

Speaker
Dr Romuald Hanslik

16:00-16:20

Radiological shielding performance of the HBS-prototype target station at Forschungszentrum Juelich

Speaker
Dr Jingjing Li

16:20-16:40 **Installation of Mercury Shutters at LANSCE**

Speaker
Mr Melvin Borrego

16:40-17:00 **Tailored additively manufactured shielding structures for neutron beamlines**

Speaker
Daniel Zeitz

17:00

15:20

Technical talks: Remote Handling

Session | Location: Clarion Hotel Malmö Live, Live 1 | Convener: Stephen Gallimore

15:20-15:40 **The ESS Target Station, Impact of Nuclear Maintenance on layout and design**

Speaker
Mr Magnus Göhran

15:40-16:00

Conceptual Development of a Remote Automated Target Assembly for Accelerator-Based Mo-99 Production

Speaker
Tarek El-Kordy

16:00-16:20

Experiences of remote maintenance for the mercury target system for the pulsed neutron source

Speaker
Dr Takashi Naoe

16:20-16:40

Progress on CSNS Remote Handling Upgrade and Post-Irradiation Examination (PIE) Platform

Speaker
Zhiduo Li

17:00

16:40–17:00 **ESS Active Cells: Installation, Commissioning and Testing**

Speaker
William Blyth

15:20

Technical talks: Scattering Instruments: Inelastic and SANS

Session | Location: Clarion Hotel Malmö Live, Live 2 | Convener: Monika Hartl

15:20–15:40 **Update on VESPA, the vibrational neutron spectrometer at the ESS**

Speaker
Monika Hartl

15:40–16:00

FANTASTIC, an indirect geometry TOF spectrometer designed for the ICONE neutron source

Speaker
Kyriakos Karyos

16:00–16:20 **SHERPA: a Spectrometer for High Energy Resolution Polarization Analysis**

Speaker
Gøran Nilsen

16:20–16:40 **SKADI: Small-Angle Neutron Scattering at ESS**

Speaker
Sebastian Jaksch

17:00

Wednesday 15 April

09:10

Technical talks: Facility Challenges I

Session | Location: Clarion Hotel Malmö Live, Live 2 | Convener: Charles Kelsey

09:10–09:30 **Freezing of the Moderator Reflector Plug 1 (MRP 1) at ESS**

Speakers

Marc Kickulies, Dr Yannick Beßler

09:30–09:50 **UKRI - STFC, ISIS Neutron Source, Target Station One - Recovery from a sticky position**

Speaker

Dan Coates

09:50–10:10 **Helium Leaks with Radiological Content: Detection Challenges**

Speaker

Atefeh Sadeghzadeh

10:10–10:30 **Is the Juice Worth the Squeeze? Cost-Value Trade-offs in Engineering Review Processes**

Speakers

Mr Iñigo Alonso, Lena Bystedt

10:30

09:10

Technical talks: Radiation Protection and Waste Management

Session | Location: Clarion Hotel Malmö Live, Live 3

09:10–09:30 **A new electronic personal dosimeter for neutron and gamma radiation**

Speaker

Roberto Bedogni

09:30–09:50 **A New Model for Radioactive Waste Management at ISIS**

Speaker

Christopher McKay

09:50–10:10 **Keeping an 'Ion' ISIS' Challenging Wastes**

Speaker

Melissa Collier

10:10–10:30 **Single moderator neutron spectrometers for monitoring neutron facilities**

Speaker

Roberto Bedogni

10:30

09:10

Technical talks: Scattering Instruments: Various Instrumentation Concepts

Session | Location: Clarion Hotel Malmö Live, Live 1 | Convener: Tianjiao Liang

09:10–09:30

Beamline diagnostics for tracking neutron beam performance at the Spallation Neutron Source

Speaker

Erik Iverson

09:30–09:50 **The first time-of-flight thermal and cold neutron test beamline in China – NTDS**

	<p>Speaker Ping Wang</p>
	<p>09:50-10:10 Design and application of the reflectivity measurement terminal of NTDS</p> <p>Speaker QING ZHANG</p>
10:30	<p>10:10-10:30 Future 8 MeV Upgrade for the LvB Compact Accelerator Neutron Source</p> <p>Speaker Mina Akhyani</p>
11:00	<p>Technical talks: Facility Challenges II Session Location: Clarion Hotel Malmö Live, Live 2 Convener: Linda Coney</p>
	<p>11:20-11:40 Supporting ESS operations and commissioning with "spallation chemistry"</p> <p>Speaker Monika Hartl</p>
12:00	<p>11:40-12:00 Integrated testing of the Neutron Factory - Planning, testing, and lessons learned</p> <p>Speakers Anton Lundmark, Dr Jaime Arriagada</p>
11:00	<p>Technical talks: Neutron Instruments: Non-scattering Applications Session Location: Clarion Hotel Malmö Live, Live 1 Convener: Matthew Frost</p>
	<p>11:00-11:20 The FINESSE and the NNBAR program at the ESS</p> <p>Speaker Valentina Santoro</p>
	<p>11:20-11:40 Preliminary neutronic design of the ECHIR beamline at ESS</p> <p>Speaker Mila Myllymäki</p>
12:00	<p>11:40-12:00 The Moderator Test Station at the Spallation Neutron Source</p> <p>Speaker Erik Iverson</p>
11:00	<p>Technical talks: Target Station Engineering I Session Location: Clarion Hotel Malmö Live, Live 3 Convener: Sara Ghatnekar Nilsson</p>
	<p>11:00-11:20 Cooling the ESS rotating target with high-temperature helium: design evolution and commissioning challenges</p> <p>Speaker Mrs Naja de la Cour</p>
	<p>11:20-11:40 Derivation of safety trip point for ESS target wheel rotation</p> <p>Speaker Kazim Raza Syed</p>
	<p>11:40-12:00 Target Monitoring system- a functional overview</p>

12:00

Speakers

Evan Foy, Kristoffer Sjögren

Thursday 16 April

09:10

Technical talks: HiCANS

Session | Location: Clarion Hotel Malmö Live, Live 1 | Convener: Annika Nordt

09:10–09:30

Progress in the Construction of ESS Bilbao accelerator as the First Phase of the ARGITU Project

Speaker

Fernando Sordo Balbín

09:30–09:50

The High Brilliance Neutron Source (HBS) Project: From Concept to Reality

Speaker

Paul Zakalek

09:50–10:10

Target – Moderator – Reflector design for the ICONE HiCANS source

Speaker

Frederic OTT

10:10–10:30

SORGENTINA: a multipurpose accelerator-driven fusion neutron source

Speaker

Antonino Pietropaolo

10:30

09:10

Technical talks: Moderators III

Session | Location: Clarion Hotel Malmö Live, Live 3 | Convener: Masahide Harada

09:10–09:30

The commissioning of a new ISIS Target Station 2 Solid Methane Moderator

Speaker

Mark Telkman

09:30–09:50

A Real-Time Ortho-hydrogen Diagnostic for a Liquid Hydrogen Moderator

Speaker

Erik Iverson

09:50–10:10

Status of development and production of second ESS Moderator & Reflector Plug

Speaker

Yannick Beßler

10:10–10:30

Development status of ESS Cryogenic Moderator System

Speaker

Theodoros Vasilopoulos

10:30

09:10

Technical talks: Scattering Instruments: Software

Session | Location: Clarion Hotel Malmö Live, Live 2 | Convener: Mads Bertelsen

09:10–09:30

Enhancing MLF Operations through a Digital Twin Framework for Neutron Scattering

Speaker

Gabriele Sala

09:30–09:50

Scattering Instrument Development and Design Workflows in Neutron Sciences at ORNL

Speaker
Matthew Frost

09:50–10:10 **From Data to Structure in Neutron Total Scattering at the CSNS Multi-Physics Instrument**

Speaker
Juping Xu

10:10–10:30 **Quantitative data analysis for neutron scattering experiments using NCrystal**

Speaker
Shuqi Xu

10:30

11:00

Technical talks: Accelerator II

Session | Location: Clarion Hotel Malmö Live, Live 2 | Convener: Chalres Taylor

11:00–11:20 **The path to 2.0 MW and beyond at the SNS**

Speaker
Nicholas Evans

11:20–11:40

Operational status and recent upgrade studies of J-PARC accelerator facility for neutron and muon sources

Speaker
Yuji Yamaguchi

11:40–12:00 **Beam-on-Target Instrumentation: Tuning, Monitoring, and Beyond**

Speaker
Cyrille Thomas

12:00

11:00

Technical talks: Neutron Moderators IV

Session | Location: Clarion Hotel Malmö Live, Live 3 | Convener: Valentina Santoro

11:00–11:20 **Conceptual Design of Future Inner Reflector Plug at SNS**

Speaker
Franz Gallmeier

11:20–11:40

Neutronics Calculations for the SNS Second Target Station Target and Moderator Final Design

Speaker
Lukas Zavorka

11:40–12:00 **Physical design and calculations of the target station of the CSNS-II**

Speaker
Bin Zhou

12:00

11:00

Technical talks: Scattering Instruments: Detectors

Session | Location: Clarion Hotel Malmö Live, Live 1 | Convener: Gøran Nilsen

11:00–11:20

The Progress of Neutron Imaging Detectors Research in Chinese Spallation Neutron Source CSNS

Speaker
Prof. Zhijia Sun

11:20–11:40

Neutron Beam Imaging on DICER Using a ^6Li Glass Scintillator Read Out by a Large Area Picosecond Photodetector (LAPPD)

Speaker
Dusan Kral

11:40–12:00

The Research of Large-Area Scintillator Neutron Detectors at the China Spallation Neutron Source (CSNS)

Speaker
Bin TANG

12:00

13:30

Technical talks: Post Irradiation Examination

Session | Location: Clarion Hotel Malmö Live, Live 3 | Convener: Magnus Göhran

13:30–13:50

Post Irradiation examination (PIE) on ISIS TS2 targets

Speaker
Stephen Gallimore

13:50–14:10

Materials Engineering at ESS: From Verification to Post-Irradiation Examination (PIE)

Speaker
Hossein Sina

14:10–14:30

Monte Carlo Predictions of Radiation Damage in the ISIS TS1 Target and indirect Experimental Benchmarking

Speaker
Lina Quintieri

14:30

13:30

Technical talks: Radiation Transport Software and Nuclear Data I

Session | Location: Clarion Hotel Malmö Live, Live 1 | Convener: Rolando Granada

13:30–13:50

AARE activation library developments

Speaker
Franz Gallmeier

13:50–14:10

Measurement and evaluation of the neutron scattering cross section for moderator materials in accelerator-based neutron sources

Speaker
Takafumi Tsujimoto

14:10–14:30

The short- and long-lived method for water activation in spallation neutron systems

Speaker
Franz Gallmeier

14:30

13:30

Technical talks: Target Station Engineering II

Session | Location: Clarion Hotel Malmö Live, Live 2 | Convener: Naja de la Cour

13:30–13:50

ESS Proton Beam Window (PBW): From Manufacturing to Site Commissioning

Speaker
Sara Ghatnekar Nilsson

13:50–14:10

Design and Validation of a Thin Aluminium Lid for a new Solid Deuterium Moderator Vessel at the UCN Facility at PSI**Speaker**

Dominic Schori

14:10–14:30

ESS Light Shutter System - System design, simulation, testing and integration**Speaker**

Mr Lennart Åström

14:30

14:50

Technical talks: Radiation Transport Software and Nuclear Data II

Session | Location: Clarion Hotel Malmö Live, Live 1 | Convener: José Ignacio Marquez Damian

14:50–15:10

Case Study of Decay Heat Calculations for the Spallation Neutron Source Second Target Station**Speaker**

Dr Tucker McClanahan

15:10–15:30

Rotational and magnetic contributions to the thermal neutron cross section of air**Speaker**

Margherita Simoni

15:30–15:50

Application of SAMMY user-defined resolution function at the spallation neutron sources**Speaker**

Lukas Zavorka

16:10

14:50

Technical talks: Scattering Instruments: Engineering

Session | Location: Clarion Hotel Malmö Live, Live 2 | Convener: Melvin Borrego

14:50–15:10

Design and manufacturing preparation of a spectrometer vacuum vessel for the Second Target Station (STS)**Speaker**

JORGE GARCIA TORTOSA

15:10–15:30

Research and development of the Fermi chopper for CSNS**Speaker**

Weiliang Cai

15:30–15:50

Precision 3D scan, Alignment and MCNP Modeling of a 100 μm Collimator at DICER**Speaker**

Josef Svoboda

16:10

14:50

Technical talks: Target Station Engineering III

Session | Location: Clarion Hotel Malmö Live, Live 3 | Convener: Paul Zakalek

14:50–15:10

ORNL Second Target Station Target Assembly Design Details and Progress**Speaker**

Aaron Jacques

15:10–15:30

Radiolysis gas treatment for high-power neutron spallation source

Speaker
Larissa P. Cunico

15:30–15:50 **Target HVAC system at the ESS research facility and its role in neutron production**

Speaker
Anna Bieliaieva

15:50–16:10

Progress on Manufacturing and Process Research of the Moderator-Reflector Plug for CSNS-II

Speaker
Chaoju Yu

16:10