

## **Session Program**

**14-24 Jul 2025**



# **ICRC 2025 - The Astroparticle Physics Conference**

***NU***

CICG - International Conference Centre - Geneva, Switzerland  
17 rue de Varembé CH - 1211 Geneva Switzerland

## Tuesday 15 July

13:20

### NU: physics

**Session** | **Location:** Room E | **Convener:** Prof. Federico Sanchez

13:20–13:35 **Neutrino results at TeV-energies from the LHC-FASER experiment**

**Speaker**

Hiroki Rokujo

13:35–13:50

**Predictions of neutrino fluxes at the Forward Physics Facility at the high-luminosity LHC**

**Speaker**

Dennis Soldin

13:50–14:05

**The quest for Lepton Flavour Violation and the neutrino nature: status of the LEGEND experiment**

**Speaker**

Giuseppe Salamanna

14:05–14:20

**Potential for atmospheric neutrino physics with JUNO**

**Speaker**

marta colomer

14:20–14:35

**Search for decoherence due to quantum gravity with the IceCube Neutrino Observatory**

**Speaker**

Tanvi Krishnan

14:35–14:50

**(Remote) First Ultra High Energy Neutrino Search with a Hybrid Phased and Traditional Detector in the Askaryan Radio Array**

**Speaker**

Paramita Dasgupta

14:50

15:20

### NU: physics

**Session** | **Location:** Room E | **Convener:** Prof. Federico Sanchez

15:20–15:35

**Exploring Exotic and Non-Standard Phenomena in the NOvA Experiment Absrtac**

**Speaker**

Oleg Samoylov

15:35–15:50

**Exploring New Oscillation Scales with Galactic Neutrinos**

**Speaker**

Miller MacDonald

15:50-16:06

**Constraints on Neutrino Secret Interactions from Multi-messenger neutrinos scattering on CνB**

**Speaker**

Maria Petropavlova

16:06

## Wednesday 16 July

13:20

### NU: experimental & next generation

Session | Location: Room B | Convener: Prof. Federico Sanchez

13:20–13:35 **Prompt atmospheric leptons and the potential role of intrinsic charm**

**Speaker**

Laksha Pradip Das

13:35–13:50

**Search for the prompt component in the atmospheric muon flux observed by KM3NeT detectors**

**Speaker**

Dr Brían Ó Fearraigh

13:50–14:05

**Validation of Atmospheric Neutrino Flux via Cosmic Ray Muon Spin Polarization Detector (CRmuSR)**

**Speaker**

Mingchen Sun

14:05–14:20

**Introduction to the ACROMASS project for the study of the charged components of the atmospheric cosmic radiation**

**Speaker**

Lorenzo Bonechi

14:20–14:35

**Physics potential of detecting solar neutrinos at JUNO**

**Speaker**

Arsenii Gavrikov

14:50

15:20

### NU: experimental & next generation

Session | Location: Room B | Convener: Prof. Federico Sanchez

15:20–15:35

**Search for Diffuse Supernova Neutrino Background in Super-Kamiokande Gadolinium experiment**

**Speaker**

Masayuki Harada

15:35–15:50

**Astrophysical neutrino search in KamLAND**

**Speaker**

Minori Eizuka

15:50–16:05

**Prospects for GeV Neutrino Transient Searches with the IceCube Upgrade**

**Speaker**

Yukiho Kobayashi

16:05-16:20

**The Giant Radio Array for Neutrino Detection - experimental status and plans**

**Speaker**

Olivier MARTINEAU

16:20-16:35

**The Radio Neutrino Observatory Greenland (RNO-G)**

**Speaker**

Anna Nelles

16:35-16:50

**Current Status of TAMBO: Realizing PeV Neutrino Astronomy with a Cost-Effective Observatory**

**Speaker**

Will Thompson

16:50

17:05

**NU: experimental & next generation**

**Session** | **Location:** Room B | **Convener:** Prof. Federico Sanchez

17:05-17:20

**The Hybrid Elevated Radio Observatory for Neutrinos (HERON) Project**

**Speaker**

Kumiko KOTERA

17:20-17:35

**Searching for Ultrahigh Energy Neutrinos with PUEO**

**Speaker**

Quincy Abarr

17:35-17:50

**First instrumented line of the Pacific Ocean Neutrino Experiment: status, development and outlook.**

**Speaker**

Cristina Lagunas Gualda

17:50-18:05

**Contribution of young massive stellar clusters to the Galactic diffuse neutrino and gamma-ray emissions**

**Speaker**

Stefano Menchiari

18:05-18:20

**Multimessenger-Informed Characterization of High-Energy Neutrino Emission from Bright Seyfert Galaxies**

**Speaker**

Ali Kheirandish

18:20

## Thursday 17 July

13:20

### NU: experimental & next generation

**Session** | **Location:** Room A | **Convener:** Prof. Teresa Montaruli

13:20–13:35 **The KM3NeT ultra-high-energy event**

**Speaker**

Mathieu Lamoureux

13:35–13:50

**A search for extremely-high-energy neutrinos with IceCube and implications for the ultra-high-energy cosmic-ray proton fraction**

**Speaker**

Maximilian Meier

13:50–14:05 **Ultra-high energy neutrino flux limit from Baikal-GVD**

**Speaker**

Maksim Sorokovikov

14:05–14:20 **Status of the Trinity PeV Neutrino Observatory**

**Speaker**

Sofia Stepanoff

14:20–14:35

**Search for Ultra-High-Energy Neutrinos at the Pierre Auger Observatory: New Triggers, Methods, and Constraints**

**Speaker**

Srijan Sehgal

14:35–14:50

**First Array-Wide Search for Diffuse UHE Neutrinos with the Askaryan Radio Array**

**Speaker**

Marco Muzio

14:50

15:20

### NU: highlights & analysis

**Session** | **Location:** Room A | **Convener:** Prof. Teresa Montaruli

15:20–15:35 **Hyper-Kamiokande: Neutrino astrophysics and Status.**

**Speaker**

Takatomi Yano

15:35–15:50

**Measurement of TeV-scale muon neutrino cross sections using Super-Kamiokande**

**Speaker**

Nahid Bhuiyan

15:50–16:05 **Construction and Commissioning of the JUNO detector**

**Speaker**

Cong Guo

16:05-16:20

**The ANTARES detector: two decades of neutrino searches in the Mediterranean Sea**

**Speaker**

maurizio spurio

16:20-16:35

**All-sky search for neutrino flares in the ANTARES legacy data**

**Speaker**

Agustín Sánchez Losa

16:35-16:50

**Galactic Template Analysis with ANTARES**

**Speaker**

Mr Théophile Cartraud

16:50

# Saturday 19 July

13:20

## NU: highlights & analysis

Session | Location: Room C | Convener: Prof. Teresa Montaruli

13:20-13:35

### The status and astrophysics results of the Baikal-GVD neutrino telescope

**Speaker**

Grigory Safronov

13:35-13:50

### Diffuse neutrino flux measurements with the Baikal-GVD neutrino telescope abstract

**Speaker**

Dr Rastislav Dvornicky

13:50-14:05

### Probing the Galactic neutrino flux with Baikal-GVD

**Speaker**

Batzhargal Ulzutuev

14:05-14:20

### All-sky diffuse astrophysical neutrino flux with KM3NeT/ARCA data

**Speaker**

Vasileios Tsourapis

14:20-14:35

### Astrophysical neutrino flux measurement and search for nutau induced cascades with 11 years of IceCube data

**Speaker**

Zheyang Chen

14:35-14:51

### Enhancing Neutrino Flavour Sensitivity in TRIDENT with Tau Neutrino Identification

**Speaker**

Wei Tian

14:51

# Monday 21 July

13:20

## NU: highlights & analysis

Session | Location: Room A | Convener: Maria Petropoulou

13:20-13:35 **The flux of electron antineutrinos from supernova SN1987A data**

**Speaker**  
Veronica Oliviero

13:35-13:50 **All-flavor Time-dependent Search for Transient Neutrino Sources**

**Speaker**  
Jose Carpio Dumler

13:50-14:05

**Search for a diffuse astrophysical neutrino flux from the Galactic Ridge with KM3NeT/ARCA**

**Speaker**  
Francesco Filippini

14:05-14:20

**Constraining the diffuse neutrino flux from gamma-ray burst blastwaves with the KM3-230213A ultra-high-energy event**

**Speaker**  
Per Myhr

14:20-14:35

**Measuring the Neutrino Flux in Segments along the Galactic Plane with IceCube**

**Speaker**  
Ludwig Neste

14:35-14:50

**Combined KM3NeT-ARCA and ANTARES searches point-like neutrino emission**

**Speaker**  
Barbara Caiffi

14:50

13:20

## NU: methods for analysis

Session | Location: Room 4 | Convener: rosa coniglione

13:20-13:35

**Reducing Simulation Dependence in Neutrino Telescopes with Masked Point Modeling**

**Speaker**  
Felix Yu

13:35-13:50

**Measurement of optical water properties using stopping muons in KM3NeT/ORCA**

**Speaker**  
Andrey Romanov

13:50-14:05

**Refinement of antenna response and ice properties at radio wavelengths**

**Speaker**  
Steve Barwick

14:05-14:20

**Neutrino Event Properties and Reconstruction with the Radar Echo Telescope**

**Speaker**  
Jannes Loonen

14:20-14:35

**State of the Ice Model in IceCube observatory**

**Speaker**  
ALBRECHT KARLE

14:35-14:50

**Solar Neutrino Data v.s. Standard Core Physics: Reconciling CNO Flux Anomalies via Opacity and Key Nuclear Cross-Section Revisions**

**Speaker**  
Prof. Yufeng Li

14:50

15:20

**NU: highlights & analysis**

**Session** | **Location:** Room A | **Convener:** Maria Petropoulou

15:20-15:35

**Hot-Coronae Stacking Analysis with the KM3NeT and ANTARES telescopes**

**Speaker**  
Walid Idrissi Ibnsalih

15:35-15:50

**Two 100 TeV Neutrinos Coincident with the Seyfert Galaxy NGC 7469**

**Speaker**  
Giacomo Sommani

15:50-16:05

**Investigating the neutrino emission of candidate neutrino-emitter blazars with the IceCubePy likelihood framework**

**Speaker**  
Dr Massimiliano Lincetto

16:05-16:20

**KM3NeT/ARCA stacking search for high-energy neutrinos from blazars**

**Speaker**  
Francesco Carenini

16:20-16:36

**Extreme blazars: stacking analysis with KM3NeT/ARCA**

**Speaker**  
Maria Rosaria Musone

16:50

15:20

**NU: instruments and applications**

Session | Location: Room 4 | Convener: rosa coniglione

15:20–15:35

**EUSO-SPB2 Cherenkov Telescope: Overview and First Neutrino Constraints**

**Speaker**

Mary Hall Reno

15:35–15:50

**Probing the Earth’s Mantle Transition Zone and Large Low-Velocity Provinces with Neutrino Oscillation Tomography**

**Speaker**

Isabel Goos

15:50–16:05

**Updated Earth Tomography Using Atmospheric Neutrinos at IceCube**

**Speaker**

Alex Wen

16:05–16:20

**Development of monitoring and control strategies for biofouling and sedimentation for the Pacific-Ocean Neutrino Experiment**

**Speaker**

Braeden Veenstra

16:20–16:35

**Neutrino search by TA SD**

**Speaker**

Kaoru Takahashi

16:35–16:50

**The GRAND@Auger Prototype for the Giant Radio Array for Neutrino Detection**

**Speaker**

Prof. João de Mello Neto

16:50

17:05

**NU: experimental & next generation**

Session | Location: Room 4 | Convener: rosa coniglione

17:05–17:20

**The Payload for Ultrahigh Energy Observations: Detector Design and Implementation**

**Speaker**

Kaeli Hughes

17:20–17:35

**The IceCube-Gen2 project**

**Speaker**

Marek Kowalski

17:35–17:50

**Probing ultra-high-energy neutrinos with the IceCube-Gen2 in-ice radio array**

**Speaker**

Christian Glaser

17:50-18:05

**Prospects for Observing KM3NeT/ARCA-like Events from Astrophysical Transients with PBR**

**Speaker**  
Angela V. Olinto

18:05-18:20

**Tracing Out The Neutrino Sky With TAMBO**

**Speaker**  
Prof. Carlos Argüelles

18:20-18:35

**The recent status of the HUNT prototypes**

**Speaker**  
Tian-Qi Huang

18:35

17:05

**NU: highlights & analysis**

**Session** | **Location:** Room A | **Convener:** Maria Petropoulou

17:05-17:20

**KM3NeT/ARCA Stacking Search for Ultra-Luminous Infrared Galaxies**

**Speaker**  
Antonio De Benedittis

17:20-17:35

**Search for High-Energy Neutrinos from Infrared Flares**

**Speaker**  
Giacomo Sommani

17:35-17:50

**Search for Correlations of High-Energy Neutrinos with Infrared Flares in AGNs**

**Speaker**  
Wenlian Li

17:50-18:05

**Fast Radio Burst Sources and Neutrinos**

**Speaker**  
Félix BRETAUDEAU

18:05-18:20

**Search for GeV-PeV neutrinos from nova T Coronae Borealis with IceCube**

**Speaker**  
Justin Vandenbroucke

18:20-18:35

**A Search for Astrophysical Neutrinos from Flaring X-ray Binaries with IceCube**

**Speaker**  
Alina Kochocki

18:35

## Tuesday 22 July

13:20

### NU: atmospheric interpretations & MM studies

Session | Location: Room C | Convener: rosa coniglione

13:20–13:35

#### A neutrino flux above 5 PeV and implications for ultrahigh-energy cosmic rays

**Speaker**

Tianlu Yuan

13:35–13:50

#### Can KM3-230213A be compatible with a cosmogenic origin?

**Speaker**

Antonio Condorelli

13:50–14:05

#### Interpretation of the KM3-230213A event origin in terms of extragalactic blazar sources

**Speaker**

Meriem Bendahman

14:05–14:20

#### The blazar PKS 0605-085 as the origin of the KM3-230213A neutrino event

**Speaker**

Timur Dzhatdov

14:20–14:35

#### Insights from leptohadronic modelling of the brightest blazar flare

**Speaker**

Mr Egor Podlesnyi

14:35–14:50

#### Extreme Relativistic Beaming in Neutrino-Associated Blazars

**Speaker**

Yuri Kovalev

14:50

13:20

### NU: highlights & analysis

Session | Location: Room F | Convener: Maria Petropoulou

13:20–13:35

#### A Global Strategy for The Future of High-Energy Neutrino Astronomy

**Speaker**

Dr Mauricio Bustamante

13:35–13:50

#### Extending KM3NeT's Point-Source Searches to Lower Energies with KM3NeT/ORCA

**Speaker**

Ilaria Del Rosso

13:50–14:05

#### Prospects for Observing Astrophysical Transients with GeV Neutrinos

**Speaker**

ANGELINA PARTENHEIMER

14:05-14:20 **KM3NeT's sensitivity to the next core-collapse supernova**

**Speaker**  
Sonia EL HEDRI

14:20-14:35 **Results from IceCube Follow-up of Nearby Supernova SN2023ixf**

**Speaker**  
Alicia Mand

14:35-14:50 **IceCat-2: Updated IceCube Event Catalog of Alert Tracks**

**Speaker**  
Angela Zegarelli

14:50

**NU: atmospheric interpretations & MM studies**

**Session** | **Location:** Room C | **Convener:** rosa coniglione

15:20

15:20-15:35

**Impact of multi-messenger spectral modelling on blazar-neutrino associations**

**Speaker**  
Julian Kuhlmann

15:35-15:50

**Correlation between the unabsorbed hard X-rays and neutrinos in radio-loud and radio-quiet AGN**

**Speaker**  
Emma Kun

15:50-16:05

**Evidence of Neutrino Emission from X-ray Bright Seyfert Galaxies with IceCube**

**Speaker**  
Carsten Rott

16:05-16:20

**Constraining the contribution of Seyfert galaxies to the astrophysical neutrino flux using NGC 1068 as a benchmark**

**Speaker**  
Lena Saurenhaus

16:20-16:35

**Neutrino and Cosmic Ray Emission of Coronae of Supermassive black holes**

**Speaker**  
Dr Rostom Mbarek

16:50

**NU: experimental & next generation**

**Session** | **Location:** Room F | **Convener:** Maria Petropoulou

15:20

15:20-15:35

**The Candidate Blazar Counterparts of the Ultra-High-Energy Event KM3-230213A**

**Speaker**  
Dr Massimiliano Lincetto

15:35-15:50

**Search for a cosmic point-like neutrino source from the direction of the ultra-high-energy event KM3-230213A****Speaker**

Martina Marconi

15:50-16:05

**Model-agnostic interpretation of the first KM3NeT Ultra-High-Energy event within the Global Neutrino Landscape****Speaker**

Jonathan Mauro

16:05-16:20

**Ultra-high-energy neutrino detection with radio antennas in the ground-based observatory****Speaker**

Baobiao Yue

16:20-16:35

**Using the Cherenkov Telescope onboard EUSO-SPB2 for Target of Opportunity searches of very high energy neutrino sources****Speaker**

Claire Guépin-Detrigne

16:35-16:50

**In Situ Calibration Systems for the Pacific Ocean Neutrino Experiment****Speaker**

Dilraj Ghuman

16:50

17:07

**NU: atmospheric interpretations & MM studies****Session** | **Location:** Room C | **Convener:** rosa coniglione

17:07-17:22

**Photo-hadronic pair creation and neutrino production in magnetospheric current sheets of accreting black holes****Speaker**

Despina Karavola

17:22-17:37

**Neutrino and electromagnetic signals from tidal disruption events: bridging the theory with observations****Speaker**

Chengchao Yuan

17:37-17:52

**A neutrino flare associated with X-ray emission from TDE ATLAS17jrp****Speaker**

Ms Ronglan Li

17:52-18:07

**Results from IceCube Searches for High-Energy Neutrinos Coincident with Gravitational-Wave Alerts in LVK O4****Speaker**

Zsuzsanna Marka

18:07-18:23 **Calculation of Atmospheric Neutrino Flux at Low Energies**

**Speaker**  
Prof. Yufeng Li

18:23

17:07

**NU: experimental & next generation**

**Session** | **Location:** Room F | **Convener:** Maria Petropoulou

17:07-17:22

**Measurement of the Diffuse Astrophysical Neutrino Spectrum above a TeV with All Flavor Starting Events in IceCube**

**Speaker**  
Aswathi Balagopal V.

17:22-17:37

**Measurement of the Three-Flavor Composition of Astrophysical Neutrinos with Contained IceCube Events**

**Speaker**  
Aswathi Balagopal V.

17:37-17:52

**Neutrino Flavor Identification at the Highest Energies with PUEO**

**Speaker**  
Austin Lee Cummings

17:52-18:07

**Do cosmic rays produce in-ice Askaryan radiation? A study with the Askaryan Radio Array**

**Speaker**  
Philipp Windischhofer

18:07-18:22

**Cosmic-Ray Physics in the PeV to EeV Energy Range with the IceCube-Gen2 Surface Array**

**Speaker**  
Frank Schroeder

18:22-18:37

**(Remote) Study of an Isolated Double-pulse Cosmic Ray Candidate Recorded with the Askaryan Radio Array**

**Speaker**  
Shoukat Ali

18:37

## Wednesday 23 July

13:20

### NU: atmospheric interpretations & MM studies

Session | Location: Room 8 | Convener: rosa coniglione

13:20–13:35

#### Selecting Hadronic Supernova Remnants for Targeted Galactic Neutrino Searches

**Speaker**

Emily Simon

13:35–13:50

#### Investigating the Origin of the Neutrino Excess in the Cygnus Bubble Core

**Speaker**

Tian-Qi Huang

13:50–14:05

#### Neutrinos as a new tracer of the gas distribution in the Milky Way Centre

**Speaker**

Paul Chong Wa Lai

14:05–14:20

#### Multi-messenger emission from choked jets in collapsars

**Speaker**

Matteo Pais

14:20–14:35

#### Self-triggered IceCube searches for GeV neutrino counterparts associated with high-energy neutrinos

**Speaker**

Christoph Raab

14:35–14:50

#### (Remote) Studying Neutrino Production Models in NGC 1068 with INTEGRAL

**Speaker**

James Rodi

14:50

13:20

### NU: highlights & analysis

Session | Location: Room B | Convener: Maria Petropoulou

13:20–13:35

#### Search for UHE neutrinos from GRBs with the Pierre Auger Observatory

**Speaker**

YAGO LEMA CAPEANS

13:35–13:50

#### High-Fidelity Simulations of the Full Askaryan Radio Array and its Sensitivity to Ultra-High Energy Neutrinos

**Speaker**

Abby Bishop

13:50–14:05

**Construction, commissioning and operation of the Radio Neutrino Observatory in Greenland (RNO-G)****Speaker**

Felix Schlüter

14:05–14:20

**Status of RNO-G's First Neutrino Search****Speaker**

Brian Clark

14:20–14:35

**Prospects of neutrino observations of the Central Molecular Zone and Cygnus cocoon with KM3NeT/ARCA****Speaker**

Marouane Benhassi

14:35

15:22

**NU: highlights & analysis****Session** | **Location:** Room B | **Convener:** Maria Petropoulou

15:22–15:37

**Recent Upgrades to TAROGE-M: Antarctic High-Mountain Radio Antenna Array for Detecting Near-Horizontal Ultra-High Energy Air Showers****Speaker**

Shih-Hao Wang

15:37–15:52

**Unfolding the Muon Neutrino Spectrum with Eleven Years of IceCube Data****Speaker**

Ms Lene van Rootselaar

15:52–16:07

**Bayesian neutrino oscillation analysis with 715 kton-yr of KM3NeT/ORCA****Speaker**

Alfonso Lazo

16:07–16:22

**Search for cosmic neutrino point sources and extended sources with 6-21 lines of KM3NeT/ARCA****Speaker**

Vittorio Parisi

16:22–16:37

**Measuring the galactic plane and searching for galactic PeVatrons using the IceCube Multi-Flavor Astrophysical Neutrino sample****Speaker**

Matthias Thiesmeyer

16:37–16:52

**(Remote) Measuring the Astrophysical Neutrino-Antineutrino Ratio with IceCube****Speaker**

Barbara Skrzypek

16:52