

Programm der Sitzung

16.-22. Sept. 2026



Erice: INTERNATIONAL SCHOOL OF NUCLEAR PHYSICS, 47th COURSE

Talks

Erice

Do., 17. September

16:00

Talks

Sitzung | **Ort:** Lecture Hall San Domenico

16:00–16:15 Uhr

A compact setup for the PTOLEMY transverse drift filter proof-of-principle

Sprecher

Francesca Maria Pofi

16:20–16:35 Uhr

Advancing β -Decay Formalism: A Full QFT Treatment for Tritium Endpoint Precision

Sprecher

Matilde Pitzalis

16:40–16:55 Uhr

Collective neutrino-antineutrino pair oscillations

Sprecher

Shih-Jie Huang

17:00–17:15 Uhr

Can super-light sterile neutrinos be probed in reactor experiments?

Sprecher

Marcos Flavio Paula Miranda Junior

17:20

17:50

Talks

Sitzung | **Ort:** Lecture Hall San Domenico

17:50–18:05 Uhr

Lepton Number Violating Electron Scattering

Sprecher

Horst Lenske

18:10–18:25 Uhr

Low energy neutrino-nucleus interactions with relativistic energy density functionals

Sprecher

Rade Smolović

18:30–18:45 Uhr

Testing $f(R)$ Gravity with Logarithmic Equation of State Using Latest Cosmological Data

Sprecher

Chaymae Karam

18:50–19:05 Uhr

Spectral Signatures of Multi-Mediator Neutrino Self-Interactions at Ultra-High Energies

19:10

Sprecher

Ayushi Kaushik

Fr., 18. September

16:00

Talks

Sitzung | **Ort:** Lecture Hall San Domenico

16:00–16:15 Uhr

Scaling Cyclotron Radiation Emission Spectroscopy(CRES) to large volumes in the Project 8 neutrino mass experiment

Sprecher

Svitlana Hoienko

16:20–16:35 Uhr

Probing the limits of Cyclotron radiation emission spectroscopy (CRES) in the Project 8 neutrino mass experiment

Sprecher

Jan Küpperbusch

16:40–16:55 Uhr

Determination of the effective neutrino mass from the Ho-163 EC spectrum

Sprecher

Lorenzo Calza Calza

17:00–17:15 Uhr

ECHo-LE: A Large scale Experiment to determine the effective neutrino mass

Sprecher

Raghav Pandey

17:20

17:50

Talks

Sitzung | **Ort:** Lecture Hall San Domenico

17:50–18:05 Uhr

SN1987A bounds for gravitationally induced neutrino quantum decoherence in the presence of dark fermions

Sprecher

Matthias Raschke

18:10–18:25 Uhr

Optimizations for the Neutrino Mass Analysis of the KATRIN Experiment using Krypton-83m

Sprecher

Karo Erhardt

18:30–18:45 Uhr

Impact of Spatially Inhomogeneous Neutrino-Electron Scattering on Slow and Fast Flavor Conversion in Core-Collapse Supernovae

Sprecher

Soumya Bhattacharyya

18:50

So., 20. September

16:00

Talks

Sitzung | **Ort:** Lecture Hall San Domenico

16:00–16:15 Uhr **Current Status and Future Prospects of the SNO+ Experiment**

Sprecher

Daniel Cookman

16:20–16:35 Uhr

Reconstruction of Atmospheric Neutrino Events at JUNO Using Transformer

Sprecher

Milo Charavet

16:40–16:55 Uhr

Neutrino Flavor Conversion in Core-collapse Supernovae

Sprecher

Noah Roux

17:00–17:15 Uhr

Kaon production by charged- and neutral-current flavor-changing interactions

Sprecher

Marta Sayago Rodríguez

17:20

17:50

Talks

Sitzung | **Ort:** Lecture Hall San Domenico

17:50–18:05 Uhr

Assessment of systematic effects in KATRIN's neutrino-mass measurement with a calibration photoelectron source

Sprecher

Sonja Schneidewind

18:10–18:25 Uhr

Search for keV-Scale Sterile Neutrinos with TRISTAN at KATRIN Using Neural Simulation-Based Inference

Sprecher

Luca Fallböhmer

18:30–18:45 Uhr

Searching for CEvNS with Cryogenic Sapphire Detectors at MINER

Sprecher

Frau Dipanwita Mondal

18:50–19:05 Uhr

The Diffuse Supernova Neutrino Background in the presence of Secret Neutrino Interactions

Sprecher

Praveen Bharadwaj

19:15

Mo., 21. September

16:00

Talks

Sitzung | **Ort:** Lecture Hall San Domenico

16:00–16:15 Uhr **A Pre-Supernova Neutrino Sensitivity Study for Hyper-Kamiokande**

Sprecher

Ellie O'Brien

16:20–16:35 Uhr

Search for the neutrinoless double electron capture of ^{36}Ar in LEGEND-200

Sprecher

Gloria Senatore

16:40–16:55 Uhr

AXEL: high-pressure Xe gas TPC for neutrinoless double beta decay search

Sprecher

Hayato Sasaki

17:00–17:15 Uhr

Status and Opportunities of the Hyper-Kamiokande Experiment

Sprecher

Dr. Nataly Ospina

17:20

17:50

Talks

Sitzung | **Ort:** Lecture Hall San Domenico

17:50–18:05 Uhr **Calibration of the Hyper-Kamiokande Detector**

Sprecher

Menai Lamers James

18:10–18:25 Uhr

Hadron Production Measurements for Neutrino Experiments at NA61/SHINE

Sprecher

Yash Chandak

18:30–18:45 Uhr

Finite temperature fermionic charge and current densities in conical space with a circular edge

Sprecher

Tigran Petrosyan

18:50–19:05 Uhr

Simulating the spin-flavour precession of neutrino in external magnetic field on a quantum processor

Sprecher

Shvetaank Tripathi

19:10–19:15 Uhr

Closing

19:15

Sprecher

Christian Fischer, Kathrin Valerius