

Session Program

Apr 13 - 16, 2026



Workshop on "Determination of the Absolute Electron (Anti-)Neutrino Mass"

Focused Topical Session

KIT Campus South
NTI-Hörsaal (NTI Lecture Hall) Engesserstraße 5, 76131 Karlsruhe

Tue, April 14

10:00 AM

Focused Topical Session: Background and systematics

Session | **Location:** KIT Campus South, NTI-Hörsaal (NTI Lecture Hall) Engesserstraße 5, 76131 Karlsruhe

11:15 AM

11:45 AM

Focused Topical Session: Holumium source

Session | **Location:** KIT Campus South, NTI-Hörsaal (NTI Lecture Hall) Engesserstraße 5, 76131 Karlsruhe

1:00 PM

2:30 PM

Focused Topical Session: Front-end electronics

Session | **Location:** KIT Campus South, NTI-Hörsaal (NTI Lecture Hall) Engesserstraße 5, 76131 Karlsruhe

2:30 – 2:45 PM **TRISTAN and KATRIN Frontend**

Speaker

Marco Carminati

2:45 – 3:00 PM **Project 8 Frontend**

Speaker

Noah Oblath

3:00 – 3:15 PM **Multiplexing schemes**

Speaker

Marco Faverzani

3:15 – 3:30 PM **ECHO electron fro μ MUX readout**

Speaker

Timo Muscheid

3:30 – 3:45 PM **QUBIC, X-IFU readout and multiplexing**

Speaker

Damien Prêle

3:45 PM

4:15 PM

Focused Topical Session: Tritiated graphene

Session | **Location:** KIT Campus South, NTI-Hörsaal (NTI Lecture Hall) Engesserstraße 5, 76131 Karlsruhe

4:15 – 4:30 PM **Graphene theory**

Speaker

Angelo Esposito

4:30 – 4:45 PM **Graphene loading**

Speaker

Alice Apponi

4:45 – 5:00 PM **Tritium graphene**

Speaker

Genrich Zeller

5:05 PM

Wed, April 15

9:45 AM

Focused Topical Session: Atomic tritium

Session | **Location:** KIT Campus South, NTI-Hörsaal (NTI Lecture Hall) Engesserstraße 5, 76131 Karlsruhe

9:45 - 10:00 AM **Hot sources for atomic tritium**

Speaker

Caroline Rodenbeck

10:00 - 10:15 AM **Cryogenic sources and magnetic confinement for atomic hydrogen**

Speaker

Vincenzo Monachello

10:15 - 10:30 AM **Dissociating hydrogen below 1 K**

Speaker

Sergey Vasiliev

10:30 - 10:45 AM **Magnetic Cooling and Trapping**

Speaker

Jones Ben

10:45 - 11:00 AM

Atomic tritium experiments at TLK: Facilities and Opportunities for Collaboration

Speaker

Dr Marco Roellig

11:15 AM

11:45 AM

Focused Topical Session: RF-based methods

Session | **Location:** KIT Campus South, NTI-Hörsaal (NTI Lecture Hall) Engesserstraße 5, 76131 Karlsruhe

11:45 AM - 12:00 PM **CRES introduction**

Speaker

Ben Monreal

12:00 - 12:15 PM **Project8 - CRES**

Speaker

Juliana Stachurska

12:15 - 12:30 PM **PTOLEMY and RF**

Speaker

Federico Virzi

12:30 - 12:45 PM **KATRIN - Time of Flight**

Speaker

Andrew Gavin

1:00 PM

2:30 PM

Focused Topical Session: Calibration methods

Session | **Location:** KIT Campus South, NTI-Hörsaal (NTI Lecture Hall) Engesserstraße 5, 76131 Karlsruhe

2:30 - 2:45 PM **Calibration overview**

Speaker

Lorenzo Calza

3:45 PM

4:15 PM

Focused Topical Session: Data analysis

Session | **Location:** KIT Campus South, NTI-Hörsaal (NTI Lecture Hall) Engesserstraße 5, 76131 Karlsruhe

5:30 PM

Thu, April 16

10:00 AM

Focused Topical Session: Wild Card / New Ideas

Session | **Location:** KIT Campus South, NTI-Hörsaal (NTI Lecture Hall) Engesserstraße 5, 76131 Karlsruhe

10:00 - 10:25 AM **Bound-state beta decay of tritium**

Speaker

Dr Evgeny Akhmedov

10:25 - 10:50 AM

Evaporative cooling of Lithium atoms as pathfinder for Tritium atoms

Speaker

Akshima Negi

10:50 - 11:15 AM **PTOLEMY - The Transverse Drift Electromagnetic Filter**

Speakers

Federico Virzi, Wonyong Chung

11:15 - 11:40 AM **High resolution time-of-flight spectroscopy at a MAC-E filter**

Speaker

Christian Weinheimer

11:40 AM

12:05 PM

Focused Topical Session: Quantum sensors

Session | **Location:** KIT Campus South, NTI-Hörsaal (NTI Lecture Hall) Engesserstraße 5, 76131 Karlsruhe

1:20 PM

2:50 PM

Focused Topical Session: Strategy and synergies

Session | **Location:** KIT Campus South, NTI-Hörsaal (NTI Lecture Hall) Engesserstraße 5, 76131 Karlsruhe

4:05 PM