

## **Session Program**

**May 23 - 25, 2023**



**Tritium Laboratory Karlsruhe - 30 years -  
23rd-25th May 2023**

## **Poster session**

FTU, TLK and IAP

Karlsruher Institut für Technologie Hermann-von-Helmholtz-Platz 1 76344 Eggenstein-Leopoldshafen

## Wed, May 24

2:00 PM

### Poster session: Poster Session

Poster Session | Location: B401, R410

#### Investigation of ozone properties for the decontamination of tritiated surfaces

##### Speaker

Dominic Batzler

#### KATRIN neutrino mass analysis - Insight into the neural network approach

##### Speaker

Christoph Wiesinger

#### Studies towards atomic tritium sources for future neutrino mass experiments

##### Speaker

Leonard Hasselmann

#### First Sensitivity Studies on the potential implementation of a high-resolution detector into the KATRIN setup

##### Speaker

Svenja Heyns

#### Development of atomic beam sources, confinement methods and detection techniques for neutrino mass measurements with atomic tritium

##### Speakers

Dr Markus Fleck, Dr Vincenzo Monachello

#### The Process of Setting Up Experiments at TLK

##### Speaker

Joshua Kohpeiß

#### Preliminary safety assessment of a fusion engineering test facility in accidental conditions

##### Speaker

Mr Gérald Degreef

#### eV scale sterile neutrino sensitivity analysis in KATRIN

##### Speakers

Ms Shailaja Mohanty, Mr Xaver Stribl

#### Setup and characterization of a confocal Raman imaging microscope built for the measurement of tritiated samples

##### Speaker

Genrich Zeller

#### Simulations for the QTNM project

##### Speaker

Seb Jones

#### Separation of ortho para hydrogen by cryogenic distillation

**Speaker**  
Daniel Kurz

## **THE GENERATION AND ANALYSIS OF TRITIUM-SUBSTITUTED METHANE**

**Speaker**  
Deseada Diaz Barrero

## **KATRIN like MINI MAC-E Filter with a tritium source for the advanced physics lab course**

**Speaker**  
Sarah Untereiner

## **UKAEA H3AT Research Overview**

**Speaker**  
Xavier Lefebvre

## **UKAEA H3AT Facility Overview**

**Speaker**  
Xavier Lefebvre

## **Measurement of the energy-dependent energy-loss function of electrons in molecular tritium gas**

**Speakers**  
Dr Volker Hannen, Ms Sonja Schneidewind

## **TRISTAN: A novel detector for searching keV-sterile neutrinos at the KATRIN experiment**

**Speaker**  
Korbinian Urban

## **In-situ tritium decontamination of the KATRIN Rear Wall**

**Speaker**  
Max Aker

## **Sub-Doppler ro-vibrational spectroscopy on HT**

**Speaker**  
Valentin Hermann

## **Measuring the viscosity of tritium**

**Speaker**  
Johanna Wydra

## **DEMO Coolant Purification Systems: design status, needs and perspective**

**Speaker**  
Vincenzo Narcisi

## **Tritium operation of the Karlsruhe Tritium Neutrino Experiment (KATRIN) at TLK**

**Speaker**  
David Hillesheimer

## **ELECTRON - High Resolution Electron Spectroscopy of a Novel Tritium Source, Using Next Generation Metallic Microcalorimeters**

3:30 PM

**Speaker**

Neven Kovac

Thu, May 25

2:00 PM  
3:00 PM

**Poster session**  
Poster Session | Location: B401, R410