

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



Tuesday, May 23, 2023 - Thursday, May 25, 2023

FTU, TLK and IAP

Scientific Program

Sessions and confirmed speakers for 24. & 25. May

Neutrino mass and atomic tritium source

Hamish Robertson, University of Washington, Seattle, USA

Sebastian Böser, Johannes Gutenberg Universität, Mainz, Germany

Nicolo de Groot, Radboud Universiteit, Nijmegen, The Netherlands

Alec Lindman, Johannes Gutenberg Universität, Mainz, Germany

Michael Sturm, TLK, Germany

Marco Röllig, TLK, Germany

R&D on fuel cycle and tritium material interactions

Francisco A. Hernández González, Karlsruhe Institute of Technology, Germany

Alessia Santucci, ENEA, Frascati, Italy

George Ana, ICSI, Valcea, Romania

Christoph Kirchlechner, Karlsruhe Institute of Technology, Germany

Knut Asmis, University of Leipzig, Germany

Florian Priester, TLK, Germany

Tritium processing

Xavier Lefebvre, UKAEA, Culham, United Kingdom

Ian Castillo, Canadian Nuclear Laboratories, Chalk River, Canada

Robert Michling, ITER, St. Paul-lez-Durance, France

Stefan Welte, TLK, Germany

Tritium analytics and applications

Christian Grisolia, CEA, France

Helmut Telle, Universidad Autonoma de Madrid, Madrid, Spain

Yuji Hatano, Hydrogen Isotope Research Center, University of Toyama, Japan

Robin größle, TLK, Germany

Tritium based industry and commercial fusion starts

Sandra Romanelli, Tokamak Energy, Abingdon, United Kingdom

Ceremonial act 23.05.2023

Ceremonial Act, 23.05.2023

FTU, Aula, B. 101

10:00 COFFEE AND GET-TOGETHER

10:30 WELCOME AND GREETINGS

Marc Weber (Head of Division 5, KIT), Oliver Kraft (Vice-President, KIT), Klaus Hesch (Head of FUSION Programme, KIT)

10:45 30 YEARS OF TLK

Beate Bornschein – Head of TLK

11:05 CHALLENGES IN THE TRITIUM FUEL CYCLE FOR THE DEMO REACTOR

Thomas Giegerich - EUROfusion DEMO Tritium-Fuelling-Vacuum Lead Engineer

11:35 MEASUREMENT OF NEUTRINO MASS WITH TRITIUM BETA DECAY - WHERE DO WE STAND, WHERE CAN WE GO

Susanne Mertens – KATRIN Co-Spokesperson

12:05 THE TRITIUM FUTURE

Magnus Schlösser – Deputy head of TLK

12:30 TRANSFER TO TLK

TLK, B.451/B. 452

13:00 LUNCH AT TLK

14:00 GUIDED TOURS AT TLK AND KATRIN AND COFFEE BREAK

16:00 BARBECUE

Poster presentations

Oral presentations