

TCP2022

GLASHÜTTEN (near Frankfurt), GERMANY
25.-30.09.2022

TCP-2022 Website: [TCP2022](https://www.tcp2022.de)

Second Circular February 2022 Call for Abstracts

Abstract Submission Deadline April 30, 2022

The **8th International conference on Trapped Charged Particles and Fundamental Physics** (TCP2022) will be held in Glashütten, Germany from September 25 to September 30, 2022. This flagship conference belongs to the series of conferences started in Lysekil (Sweden) in 1994, followed by conferences in Asilomar (USA, 1998), Wildbad Kreuth (Germany, 2002), Parksville on Vancouver Island (Canada, 2006), Saariselkä (Northern Finland, 2010), Takamatsu (Japan, 2014) and Traverse City, MI (USA, 2018). The conference in Glashütten will focus on recent developments and highlights in scientific fields using trapped charged particles with a particular emphasis on:

- Fundamental Interactions and Symmetries
- QED Effects
- Quantum State Manipulation and Quantum Information
- Precision Spectroscopy and Frequency Standards
- Highly Charged Ions in Traps
- Radioactive Isotopes in Traps
- Plasmas and Collective Behavior
- Storage Ring Physics
- Trapped Antimatter
- Applications of Charged Particle Trapping

Abstract Submission

We invite you to submit an abstract in one of the focus areas to TCP2022 via the conference website by April 30, 2022.

Oral and poster presentations addressing the scientific topics for TCP2022 will be selected with the advice of the International Advisory Committee from the set of contributed abstracts. Notification on acceptance of submitted contributions will be sent on 31 May.

Registration

Online registration via the website has been opened as of 16 February, 2022.

Conference Program

TCP2022 will have a five-day scientific program. Registration and a Welcome Reception take place on Sunday evening, 25 September. Conference excursions are tentatively planned for Wednesday afternoon 28 September, and the conference banquet will be held in the evening of Thursday, 29 September.

Additional Information about TCP-2022

Additional information regarding the conference venue, accommodation and travel can be found on the TCP2022 website.

Important Dates

- TCP2022 Conference 25 -30 September, 2022
- Tentative dates for the organization of the meeting:
 - Early Registration opens - 16 February 2022
 - Deadline for Contributed Abstracts – 30 April 2022
 - Author notification – 31 May 2022
 - Deadline for early payment – 15 June 2022
 - End of block reservation Hotel rooms – 30 June 2022
 - Registration closes – 30 June 2022

International Advisory Committee

- Rainer Blatt, University of Innsbruck, Austria
- Georg Bollen, FRIB, MSU, East Lansing, USA
- John Bollinger, NIST, Boulder, USA
- Dima Budker, Uni Mainz und HIM, Germany
- Jens Dilling, Oak Ridge National Laboratory, TN, USA
- Anu Kankainen, University of Jyväskylä, Finland
- Martina Knoop, University Aix-Marseille, France
- Xinwen Ma, Institute of Modern Physics, Lanzhou, China
- Daniel Rodriguez, University of Granada, Spain
- Guy Ron, Racah Institute of Physics, Israel
- Guy Savard, Argonne National Lab, USA
- Yannis Semertzidis, Korea Adv. Institute of Science and Technology, South Korea
- Richard Thompson, Imperial College London, United Kingdom
- Stefan Ulmer, CERN, Switzerland and RIKEN, Japan
- Michiharu Wada, KEK, Japan
- Eberhard Widmann, S. Meyer Institute, Vienna, Austria
- Takayuki Yamaguchi, Saitama, Japan
- Yuhu Zhang, Institute of Modern Physics, Lanzhou, China

Local Organizers (MPIK, GSI, HIM)

- Klaus Blaum, Max Planck Institute for Nuclear Physics, Heidelberg, Germany
- Michael Block, GSI, Darmstadt, Germany, Helmholtz-Institut Mainz, Germany, University of Mainz
- Sergey Eliseev, Max Planck Institute for Nuclear Physics, Heidelberg, Germany
- Francesca Giacoppo, GSI, Darmstadt, Germany
- Miriam Jäger, Helmholtz-Institut Mainz, Germany
- Yuri Litvinov, GSI, Darmstadt, Germany
- Thomas Stöhlker, GSI, Darmstadt + Helmholtz-Institut Jena, Germany
- Gabi Weese, Max Planck Institute for Nuclear Physics, Heidelberg, Germany

Conference Chairs

- Klaus Blaum (MPIK) and
- Michael Block (GSI, HIM, JGU)
- Thomas Stoehlker (GSI, HIJ)

Contacts

Please address questions about the conference to:

TCP2022 Secretaries Miriam Jäger and Gabi Weese - Email: TCP2022@uni-mainz.de

The TCP2022 Conference is organized by:



The TCP2022 Conference is sponsored by:

