

Session Program

29 August 2022 to 2 September 2022



SSP2022

**8th International Symposium on Symmetries
in Subatomic Physics (SSP2022)**

Symmetries

Monday 29 August

10:00

Symmetries: Lepton flavour

Session | **Location:** University of Applied Arts Vienna Vordere Zollamtsstraße 7 1030 Vienna | **Convener:** Prof. Claude AMSLER

10:00–10:30

Lepton flavour universality at Belle and Belle II

Speaker

Dr Seema Choudhury

10:30–11:00

Tests of lepton flavour universality with (semi-)leptonic decays of charmed mesons

Speakers

Evelina Gersabeck , Evelina Mihova Gersabeck

11:00

11:30

Symmetries: Lepton flavour

Session | **Location:** University of Applied Arts Vienna Vordere Zollamtsstraße 7 1030 Vienna | **Convener:** Prof. Claude AMSLER

11:30–12:00

Lepton flavour violation and symmetry searches at PSI

Speaker

Angela Papa

12:00–12:25

The Mu2e experiment at Fermilab

Speaker

Yuri Oksuzian

12:25

14:50

Symmetries: eDM

Session | **Location:** University of Applied Arts Vienna Vordere Zollamtsstraße 7 1030 Vienna

14:50–15:20

Progress towards the TRIUMF ultracold neutron facility and neutron electric dipole moment experiment

Speaker

Dr Rüdiger Picker

15:20

16:00

Symmetries: eDM

Session | **Location:** University of Applied Arts Vienna Vordere Zollamtsstraße 7 1030 Vienna | **Convener:** Ben Sauer

16:00–16:30

JEDI and beyond - the quest for EDMs of charged particles

Speaker

Dr Aleksandra Wrońska

16:30–17:00

Perspectives of EDM searches in Atoms and Molecules

Speaker

Lorenz Willmann

17:00

Tuesday 30 August

09:00

Symmetries: Hadronic reactions

Session | **Location:** University of Applied Arts Vienna Vordere Zollamtsstraße 7 1030 Vienna | **Convener:** Prof. Claude AMSLER

09:00–09:30

Discrete symmetry tests using hyperon-antihyperon pairs at BESIII

Speaker

Andrzej Kupsc

09:30–10:00

Symmetries in charm mesons and baryons from Belle/Belle II

Speaker

Dr Longke Li

10:00–10:30

Recent results on T, CP and CPT tests with KLOE-2

Speaker

Francesca Curciarello

10:30

11:00

Symmetries: Molecules

Session | **Location:** University of Applied Arts Vienna Vordere Zollamtsstraße 7 1030 Vienna | **Convener:** Lorenz Willmann

11:00–11:25

A laser cooled beam of YbF for measuring the electron electric dipole moment

Speaker

Ben Sauer

11:25–11:50

Searches for CP-violating effects with YbF molecules

Speaker

Christopher Ho

11:50

15:00

Symmetries: Leptonic reactions

Session | **Location:** University of Applied Arts Vienna Vordere Zollamtsstraße 7 1030 Vienna | **Convener:** Eberhard Widmann

15:00–15:25

Testing CP and CPT symmetries in ortho-positronium decays with J-PET detector

Speaker

Aleksander Gajos

15:25–15:50

The MOLLER and P2 Experiments; High precision tests of the running of the Weak mixing angle

Speaker

Michael Gericke

15:50

Wednesday 31 August

09:00

Symmetries: Parity tests

Session | **Location:** University of Applied Arts Vienna Vordere Zollamtsstraße 7 1030 Vienna | **Convener:** Hartmut Abele

09:00–09:30

Low-energy experiments in search for new physics

Speaker

Dionysis Antypas

09:30–10:00

Parity violation with neutrons

Speaker

Hirohiko Shimizu

10:00–10:30

Fundamental Physics with Slow Neutrons

Speaker

Shinsuke Kawasaki

10:30

11:00

Symmetries: Neutrinos

Session | **Location:** University of Applied Arts Vienna Vordere Zollamtsstraße 7 1030 Vienna | **Convener:** Prof. Livia Ludhova

11:00–11:30

The quest for leptonic CP violation

Speaker

Prof. Federico Sanchez

11:30–12:00

CPT invariance and neutrinos

Speaker

Gabriela Barenboim

12:00

15:00

Symmetries: Neutrons

Session | **Location:** University of Applied Arts Vienna Vordere Zollamtsstraße 7 1030 Vienna | **Convener:** Hirohiko Shimizu

15:00–15:30

Measurement of the free neutron decay: status and prospects

Speaker

Chen-Yu Liu

15:30

15:30

Symmetries: Magnetic moments

Session | **Location:** University of Applied Arts Vienna Vordere Zollamtsstraße 7 1030 Vienna | **Convener:** Hirohiko Shimizu

15:30–16:00

The g-2 experiment at FNAL

Speaker

David Kaway

16:00

Thursday 1 September

09:00

Symmetries: Matter-antimatter symmetry

Session | **Location:** University of Applied Arts Vienna Vordere Zollamtsstraße 7 1030 Vienna | **Convener:** Paolo Crivelli

09:00–09:30

The ALPHA Experiment

Speaker

Andrew Evans

09:30–10:00

The Base Experiment

Speaker

Stefan Erlewein

10:00–10:30

The ASACUSA Experiment

Speaker

Dr Daniel James Murtagh

10:30

14:30

Symmetries: BSM

Session | **Location:** University of Applied Arts Vienna Vordere Zollamtsstraße 7 1030 Vienna | **Convener:** Ralf Lehnert

14:30–15:00

Fermion number violation with heavy neutrinos

Speaker

Alain Blondel

15:00

15:30

Symmetries: BSM

Session | **Location:** University of Applied Arts Vienna Vordere Zollamtsstraße 7 1030 Vienna | **Convener:** Eberhard Widmann

15:30–16:00

Standard-Model Extension

Speaker

Ralf Lehnert

16:00–16:30

Tests of physics beyond the Standard Model with the g factor of few-electron ions

Speaker

Dr Zoltan Harman

16:30–17:00

Novel mechanisms of electric dipole moments in atoms and molecules

Speaker

Dr Yevgeny Stadnik

17:00