

**EXOTICO: EXOTIc atoms  
meet nuclear COLLisions for a  
new frontier precision era in  
low-energy strangeness  
nuclear physics**

**Report of Contributions**

Contribution ID: 1

Type: **not specified**

# Welcome

*Monday, 17 October 2022 10:15 (15 minutes)*

Contribution ID: 2

Type: **not specified**

## **Experimental challenges to confront $\bar{K}n$ interaction from UChPT**

*Monday, 17 October 2022 10:30 (30 minutes)*

**Presenter:** FEJOO, Albert (Intitut de Fisica Corpuscular (IFIC))

Contribution ID: 3

Type: **not specified**

## **pi-Sigma mass spectra measured in d(K-,N)piSigma reactions**

*Monday, 17 October 2022 11:30 (30 minutes)*

**Presenter:** NOUMI, Hiroyuki (RCNP, Osaka University)

Contribution ID: 4

Type: **not specified**

# High-resolution exotic atom X-ray spectroscopy at J-PARC

*Monday, 17 October 2022 12:00 (30 minutes)*

**Presenter:** OKADA, Shinji (Chubu University)

Contribution ID: 5

Type: **not specified**

## **First application of a microscopic $K^-NN$ absorption model in calculations of kaonic atoms**

*Monday, 17 October 2022 14:30 (30 minutes)*

**Presenter:** OBERTOVA, Jaroslava (FNSPE CTU in Prague)

Contribution ID: 6

Type: **not specified**

## **Cascade models for atomic transition in kaonic atoms**

*Monday, 17 October 2022 15:00 (25 minutes)*

**Presenter:** MANTI, Simone

Contribution ID: 7

Type: **not specified**

## **General status of SIDDHARTA-2 experiment**

*Monday, 17 October 2022 15:55 (30 minutes)*

**Presenter:** SIRGHI, Florin (INFN-LNF)



Contribution ID: 8

Type: **not specified**

## The ppp correlation function

*Tuesday, 18 October 2022 10:00 (30 minutes)*

**Presenter:** KIEVSKY, Alejandro (INFN)

Contribution ID: 9

Type: **not specified**

## **Hamiltonian effective field theory with the nucleon excitations and kaonic atoms**

*Tuesday, 18 October 2022 10:30 (30 minutes)*

**Presenter:** LIU, Zhan-Wei (Lanzhou University)

Contribution ID: **10**

Type: **not specified**

## **Kaon-deuteron systems and femtoscopy**

*Tuesday, 18 October 2022 11:30 (30 minutes)*

**Presenter:** HYODO, Tetsuo (Tokyo Metropolitan University)

Contribution ID: 11

Type: **not specified**

## **Studies of low-energy K- nucleus/nuclei interactions by AMADEUS**

*Tuesday, 18 October 2022 12:00 (30 minutes)*

**Presenter:** SKURZOK, Magdalena (Jagiellonian University)

Contribution ID: 12

Type: **not specified**

## $K^0$ -p correlation function and chiral SU(3) dynamics

*Tuesday, 18 October 2022 14:30 (30 minutes)*

**Presenter:** KAMIYA, Yuki (HISKP, Bonn University)

Contribution ID: 13

Type: **not specified**

## **Femtoscopy studies on Kaon-proton with ALICE**

*Tuesday, 18 October 2022 15:00 (30 minutes)*

**Presenter:** LEA, Ramona (University of Brescia)

Contribution ID: 14

Type: **not specified**

## **Kaonic atoms X-ray spectroscopy: the SIDDHARTA-2 experiment**

*Tuesday, 18 October 2022 16:00 (30 minutes)*

**Presenter:** SGARAMELLA, Francesco (INFN-LNF)

Contribution ID: 15

Type: **not specified**

## **Radiation detectors for future kaonic atoms measurements at DAFNE**

*Tuesday, 18 October 2022 16:30 (30 minutes)*

**Presenter:** SCORDO, Alessandro (Laboratori Nazionali di Frascati INFN)



Contribution ID: 16

Type: **not specified**

## **Phi-meson bound states in J-PARC**

*Wednesday, 19 October 2022 10:00 (30 minutes)*

**Presenter:** SADA, Yuta (ELPH, Tohoku Univ.)

Contribution ID: 17

Type: **not specified**

## **Proton-phi interaction from femtoscopy and comparison to lattice QCD**

*Wednesday, 19 October 2022 10:30 (30 minutes)*

**Presenter:** CHIZZALI, Emma (Technical University of Munich)

Contribution ID: **18**

Type: **not specified**

## **Assorted aspects of the hyperon-nucleon interaction**

*Wednesday, 19 October 2022 11:30 (30 minutes)*

**Presenter:** HAIDENBAUER, Johann (Forschungszentrum Juelich, Juelich, Germany)

Contribution ID: **19**

Type: **not specified**

## **Machine learning light hypernuclei**

*Wednesday, 19 October 2022 12:00 (30 minutes)*

**Presenter:** VIDANA, Isaac (INFN)

Contribution ID: 20

Type: **not specified**

## $\Xi^-$ - nuclear bound states from Emulsion experiments at KEK and J-PARC

*Wednesday, 19 October 2022 14:30 (30 minutes)*

**Presenter:** GAL, Avraham (Hebrew University, Jerusalem, Israel)

Contribution ID: 21

Type: **not specified**

## **Lambda NN content of the Lambda-nucleus potential**

*Wednesday, 19 October 2022 15:00 (30 minutes)*

**Presenter:** FRIEDMAN, Eliahu (Racah Institute of Physics, Hebrew Unuversuty, Jerusalem Israel)

Contribution ID: 22

Type: **not specified**

## **Recent pionless EFT studies of $\Lambda NN$ continuum states, $A=4$ $\Lambda$ hypernuclear CSB and the onset of $\Lambda - \bar{\Lambda}$ hypernuclear binding**

*Wednesday, 19 October 2022 16:00 (30 minutes)*

**Presenter:** SCHAFER, Martin (Nuclear Physics Institute of the CAS, Rez, Czech Republic)

Contribution ID: 23

Type: **not specified**

## **Production of light nuclei at colliders - coalescence vs. thermal model.**

*Thursday, 20 October 2022 10:00 (30 minutes)*

**Presenter:** MROWCZYNSKI, Stanislaw



Contribution ID: 24

Type: **not specified**

## **Light nuclei femtoscopy results from RHIC-STAR**

*Thursday, 20 October 2022 10:30 (30 minutes)*

**Presenter:** MI, Ke

Contribution ID: 25

Type: **not specified**

## pd Femtoscopy with ALICE

*Thursday, 20 October 2022 11:30 (30 minutes)*

**Presenter:** FABBIETTI, Laura (Technische Universität München)

Contribution ID: 26

Type: **not specified**

## **Effect of deuteron breakup on the deuteron- $\Xi$ correlation function**

*Thursday, 20 October 2022 12:00 (30 minutes)*

**Presenter:** OGATA, Kazuyuki (Kyushu University)

Contribution ID: 27

Type: **not specified**

# Equation of state for neutron stars and binary neutron star mergers

*Thursday, 20 October 2022 14:30 (30 minutes)*

**Presenter:** LOGOTETA, Domenico (university of Pisa)

Contribution ID: 28

Type: **not specified**

## Equation of state for hot hyperonic neutron star matter

*Thursday, 20 October 2022 15:00 (30 minutes)*

**Presenter:** KOCHANKOVSKI, Hristijan (Departament de Física Quàntica i Astrofísica and Institut de Ciències del Cosmos, Universitat de Barcelona, Martí i Franques 1, 08028, Barcelona, Spain)

Contribution ID: 29

Type: **not specified**

## **A high-energy QCD portal to exotic matter: heavy-light tetraquarks at the HL-LHC**

*Thursday, 20 October 2022 16:00 (30 minutes)*

**Presenter:** CELIBERTO, Francesco Giovanni (ECT\*/FBK Trento & INFN-TIFPA)

Contribution ID: **30**

Type: **not specified**

## **Statistical Methods for particle and nuclear physics**

*Thursday, 20 October 2022 16:30 (30 minutes)*

**Presenter:** NAPOLITANO, Fabrizio (INFN-LNF)

Contribution ID: **31**

Type: **not specified**

## **KNN and KNNN states: Faddeev calculations**

*Friday, 21 October 2022 10:00 (30 minutes)*

**Presenter:** SHEVCHENKO, Nina (Nuclear physics institute, Rez)



Contribution ID: 32

Type: **not specified**

## **Result of KbarNN search in J-PARC E15 and future project**

*Friday, 21 October 2022 10:30 (30 minutes)*

**Presenter:** YAMAGA, Takumi (RIKEN)

Contribution ID: 33

Type: **not specified**

## **Three-body femtoscopy with ALICE**

*Friday, 21 October 2022 11:30 (30 minutes)*

**Presenter:** DEL GRANDE, Raffaele (Technische Universität München)

Contribution ID: 34

Type: **not specified**

## **Experimental study of the four-body kaonic nuclear state, $K\bar{N}NN$**

*Friday, 21 October 2022 12:00 (30 minutes)*

**Presenter:** HASHIMOTO, Tadashi (Japan Atomic Energy Agency)