

**STRANU: Hot Topics in
STRANgeness NUClear and
Atomic Physics**

Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome

Monday, May 24, 2021 8:30 AM (30 minutes)

Presenters: AARTS, G.; WORKSHOP ORGANIZERS

Contribution ID: 2

Type: **not specified**

K-pp search in J-PARC E27 and E05

Monday, May 24, 2021 9:00 AM (30 minutes)

Presenter: NAGAE, Tomofumi

Contribution ID: 3

Type: **not specified**

Experimental study toward spin-parity assignment of the first Kaonic nuclear bound state, K^-pp

Monday, May 24, 2021 9:30 AM (30 minutes)

Presenter: IWASAKI, Masahiko

Contribution ID: 4

Type: **not specified**

Pole status of Lambda(1405) (preliminary)

Monday, May 24, 2021 10:00 AM (30 minutes)

Presenter: CIEPLY, Ales

Contribution ID: 5

Type: **not specified**

New insights on Lambda(1405) from triangle singularity in the $K^{\wedge}-d \rightarrow p \Sigma^{\wedge}$ -reaction

Monday, May 24, 2021 11:00 AM (25 minutes)

Presenter: FEJOO, Albert

Contribution ID: 6

Type: **not specified**

Status of AMADEUS studies of low-energy kaons interactions in nuclear matter

Monday, May 24, 2021 11:25 AM (25 minutes)

Presenter: SKURZOK, Magdalena

Contribution ID: 7

Type: **not specified**

Microscopic model of K^- -NN absorption and its application in kaonic atoms calculations

Monday, May 24, 2021 11:50 AM (25 minutes)

Presenter: ÓBERTOVÁ , Jaroslava

Contribution ID: 8

Type: **not specified**

Four-body Faddeev-type calculation of $\bar{K}NNN$ system: K^-np quasi-bound state

Monday, May 24, 2021 12:15 PM (25 minutes)

Presenter: SHEVCHENKO, Nina

Contribution ID: 9

Type: **not specified**

The two-step mechanism explaining the dibaryon d*(2380) peak

Monday, May 24, 2021 12:40 PM (25 minutes)

Presenter: MOLINA, Raquel

Contribution ID: 10

Type: **not specified**

Measurement of spin-density matrix elements in Lambda(1520) photoproduction at GlueX

Monday, May 24, 2021 1:05 PM (25 minutes)

Presenter: PAULI, Peter

Contribution ID: 11

Type: **not specified**

Instructive stories of failures

Tuesday, May 25, 2021 9:00 AM (1 hour)

Presenter: WYCECH, Slawomir

Contribution ID: 12

Type: **not specified**

In search of Baryonia

Tuesday, May 25, 2021 10:00 AM (30 minutes)

Presenter: LOISEAU, Benoit

Contribution ID: 13

Type: **not specified**

Fifty years of low-energy kaon-nucleus interactions

Tuesday, May 25, 2021 11:00 AM (30 minutes)

Presenter: FRIEDMAN, Eli

Contribution ID: 14

Type: **not specified**

Search for Borromean objects

Tuesday, May 25, 2021 11:30 AM (30 minutes)

Presenter: MOSKAL, Pawel

Contribution ID: 15

Type: **not specified**

Antiprotonic atoms a tool for nuclear structure

Tuesday, May 25, 2021 12:00 PM (30 minutes)

Presenter: OBERTELLI, Alexandre

Contribution ID: 16

Type: **not specified**

An insight of the sub-threshold KbarN interaction

Tuesday, May 25, 2021 12:30 PM (30 minutes)

Presenter: PISCICCHIA, Kristian

Contribution ID: 17

Type: **not specified**

Discussion session through the platform Gather Town

Tuesday, May 25, 2021 1:00 PM (1 hour)

Contribution ID: **18**

Type: **not specified**

Strangeness in compact stars

Wednesday, May 26, 2021 9:00 AM (30 minutes)

Presenter: DRAGO, Alessandro

Contribution ID: **19**

Type: **not specified**

Transport coefficients of hyperonic neutron star cores

Wednesday, May 26, 2021 9:30 AM (30 minutes)

Presenter: VIDAÑA, Isaac

Contribution ID: 20

Type: **not specified**

Strange Mesons in Nuclei and Neutron Stars

Wednesday, May 26, 2021 10:00 AM (30 minutes)

Presenter: TOLOS, Laura

Contribution ID: 21

Type: **not specified**

Exploring the baryon-baryon interaction in the strangeness sector with lattice QCD

Wednesday, May 26, 2021 11:00 AM (25 minutes)

Presenter: ILLA, Mark

Contribution ID: 22

Type: **not specified**

First experimental hint on the three-body strong interaction with ALICE

Wednesday, May 26, 2021 11:25 AM (25 minutes)

Presenter: DEL GRANDE, Raffaele

Contribution ID: 23

Type: **not specified**

Constraining the p^- as well as the $p^- 0$ interaction employing femtoscopy at the LHC

Wednesday, May 26, 2021 11:50 AM (25 minutes)

Presenter: KORWIESER, Max

Contribution ID: 24

Type: **not specified**

Proton- ϕ interaction studied in pp collisions with ALICE at the LHC

Wednesday, May 26, 2021 12:15 PM (25 minutes)

Presenter: CHIZZALI, Emma

Contribution ID: 25

Type: **not specified**

New experimental limits on the effective hadron interaction with strangeness = -3

Wednesday, May 26, 2021 12:40 PM (25 minutes)

Presenter: MANTZARIDIS, Georgios

Contribution ID: 26

Type: **not specified**

Electroweak properties of kaons in a nuclear medium

Wednesday, May 26, 2021 1:05 PM (25 minutes)

Presenter: HUTAURUK, Parada

Contribution ID: 27

Type: **not specified**

Cascade hyperon capture in light emulsion nuclei

Thursday, May 27, 2021 10:00 AM (30 minutes)

Presenter: GAL, Avraham

Contribution ID: 28

Type: **not specified**

Challenging the puzzle on light hypernuclei with heavy ion beams, nuclear emulsion and machine learning

Thursday, May 27, 2021 9:30 AM (30 minutes)

Presenter: SAITO, Take

Contribution ID: 29

Type: **not specified**

Single and double Lambda Hypernuclei in baryonic effective field theory

Thursday, May 27, 2021 9:00 AM (30 minutes)

Presenter: BARNEA, Nir

Contribution ID: **30**

Type: **not specified**

Continuum spectrum of hypernuclear trios

Thursday, May 27, 2021 11:00 AM (25 minutes)

Presenter: SCHÄFER, Martin

Contribution ID: **31**

Type: **not specified**

Lifetime of the hypertriton

Thursday, May 27, 2021 11:25 AM (25 minutes)

Presenter: HILDENBRAND, Fabian

Contribution ID: 32

Type: **not specified**

On the hypertriton decay rate

Thursday, May 27, 2021 11:50 AM (25 minutes)

Presenter: PÉREZ-OBIOL, Axel

Contribution ID: 33

Type: **not specified**

Vorticity and polarization of Lambda hyperons

Thursday, May 27, 2021 12:15 PM (25 minutes)

Presenter: SINGH, Rajeev

Contribution ID: 34

Type: **not specified**

Recent advancements of thermodynamical studies in the framework of three-flavor vector meson extended PQM model

Thursday, May 27, 2021 12:40 PM (25 minutes)

Presenter: KOVACS , Peter

Contribution ID: 35

Type: **not specified**

Curvature masses and possible improvements via the one-loop self-energy in $N_f=2+1$ ELSM

Thursday, May 27, 2021 1:05 PM (25 minutes)

Presenter: KOVACS , Gyozo

Contribution ID: **36**

Type: **not specified**

KbarN chiral interaction beyond s-wave

Friday, May 28, 2021 9:00 AM (30 minutes)

Presenter: RAMOS, Angels

Contribution ID: 37

Type: **not specified**

Anti-kaon nucleon scattering amplitude measured below the KN mass threshold

Friday, May 28, 2021 9:30 AM (30 minutes)

Presenter: NOUMI, Hiroyuki

Contribution ID: 38

Type: **not specified**

Experimental studies of the kaon-nucleus interaction at low energy with X-ray spectroscopy of kaonic atoms: from SIDDHARTA to SIDDHARTA-2 experiment

Friday, May 28, 2021 10:00 AM (30 minutes)

Presenter: SIRGHI, Diana

Contribution ID: 39

Type: **not specified**

SIDDHARTINO: first step towards SIDDHARTA-2

Friday, May 28, 2021 11:00 AM (25 minutes)

Presenter: MILIUCCI, Marco

Contribution ID: 41

Type: **not specified**

First SIDDHARTA-2 runs: luminosity measurements

Friday, May 28, 2021 11:50 AM (25 minutes)

Presenter: NAPOLITANO, Fabrizio

Contribution ID: 42

Type: **not specified**

HAPG mosaic crystal Von Hamos spectrometer for high precision exotic atoms spectroscopy

Friday, May 28, 2021 12:15 PM (25 minutes)

Presenter: SCORDO, Alessandro

Contribution ID: 43

Type: **not specified**

Precision spectroscopy of kaonic-atom X-rays with cryogenic detector

Friday, May 28, 2021 12:40 PM (25 minutes)

Presenter: OKADA, Shinji

Contribution ID: 44

Type: **not specified**

Discussion and Conclusions

Friday, May 28, 2021 1:05 PM (25 minutes)

Contribution ID: 45

Type: **not specified**

SDD qualification for kaonic atoms measurements

Friday, May 28, 2021 11:25 AM (25 minutes)

Presenter: SGARAMELLA, Francesco