

# **7th Young Scientist Festival of Division of Experimental Physics 2023**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

# Quantum communication experiments with entangled photon pairs

*Wednesday 19 April 2023 10:00 (25 minutes)*

**Presenter:** PERANIĆ, Matej

**Session Classification:** Student talks

Contribution ID: 2

Type: **not specified**

## **Diamond: the devil is in the defects**

*Wednesday 19 April 2023 10:25 (25 minutes)*

**Presenter:** CRNJAC, Andreo

**Session Classification:** Student talks

Contribution ID: 3

Type: **not specified**

## **Unraveling the nuclear equation of state: Insights from heavy-ion collisions**

**Presenter:** LIHTAR, Ivana

**Session Classification:** Student talks

Contribution ID: 4

Type: **not specified**

## **Multitracer analysis of the LOFAR Two-Metre Sky Survey data**

*Wednesday 19 April 2023 11:35 (25 minutes)*

**Presenter:** ERCEG, Ana

**Session Classification:** Student talks

Contribution ID: 5

Type: **not specified**

## Clustering in neutron-rich Be and B isotopes

*Wednesday 19 April 2023 13:30 (25 minutes)*

**Presenter:** VUKMAN, Nikola (Ruđer Bošković Institute)

**Session Classification:** Student talks

Contribution ID: 6

Type: **not specified**

# Studying nuclear materials with ion beam irradiation

*Wednesday 19 April 2023 13:55 (25 minutes)*

**Presenter:** DUNATOV, Toni

**Session Classification:** Student talks

Contribution ID: 7

Type: **not specified**

## **Neutron Activation Analysis: Associated Alpha Particle Technique**

*Wednesday 19 April 2023 14:40 (25 minutes)*

**Presenter:** BATUR, Josip

**Session Classification:** Student talks



Contribution ID: 8

Type: **not specified**

# Higgs as a tool for discovering new physics at the LHC

*Wednesday 19 April 2023 15:05 (25 minutes)*

**Presenter:** ROGULJIC, Matej (Johns Hopkins University (JHU))

**Session Classification:** Student talks

Contribution ID: 9

Type: **not specified**

## **Study of semiconducting detectors using Ion Beam Induced Charge technique**

*Wednesday 19 April 2023 15:30 (25 minutes)*

**Presenter:** IVANKOVIĆ, Karla (Rudjer Boskovic Institute)

**Session Classification:** Student talks

Contribution ID: **10**

Type: **not specified**

## Talk 10

**Session Classification:** Student talks

Contribution ID: **11**

Type: **not specified**

# Welcome

*Wednesday 19 April 2023 09:00 (10 minutes)*

**Session Classification:** Introduction

Contribution ID: 12

Type: **not specified**

## Address of previous organizers

*Wednesday 19 April 2023 09:15 (5 minutes)*

**Presenter:** BRIGLJEVIC, Vuko (Rudjer Boskovic Institute (HR))

**Session Classification:** Introduction

Contribution ID: 13

Type: **not specified**

## Address of the department head

*Wednesday 19 April 2023 09:20 (5 minutes)*

**Presenter:** FAZINIC, Stjepko

**Session Classification:** Introduction

Contribution ID: 14

Type: **not specified**

## Address of the director and review of O-ZIP

*Wednesday 19 April 2023 09:25 (25 minutes)*

**Presenter:** SMITH, David Matthew

**Session Classification:** Introduction

Contribution ID: 15

Type: **not specified**

## **Carbon sequestration dynamics in the recent marine sediments**

*Thursday 20 April 2023 10:00 (25 minutes)*

**Presenter:** VINKOVIĆ, Andrija

**Session Classification:** Student talks



Contribution ID: **16**

Type: **not specified**

## **Development of low noise diamond detectors**

*Thursday 20 April 2023 10:25 (25 minutes)*

**Presenter:** VICENTIJEVIC, Milan (Ruder Boskovic Institute)

**Session Classification:** Student talks

Contribution ID: 17

Type: **not specified**

## **Multinucleon transfer reactions in $^{206}\text{Pb} + ^{118}\text{Sn}$ studied with the PRISMA spectrometer**

*Wednesday 19 April 2023 11:10 (25 minutes)*

**Presenter:** DIKLIC, Josipa

**Session Classification:** Student talks

Contribution ID: **18**

Type: **not specified**

## **Periodic variability of Stripe 82 quasar light curves and associated changes in MgII emission line profiles**

*Thursday 20 April 2023 11:10 (25 minutes)*

**Presenter:** FATOVIĆ, Marta

**Session Classification:** Student talks

Contribution ID: **19**

Type: **not specified**

## **Neutrino interaction cross section measurements with the ENUBET experiment**

*Thursday 20 April 2023 11:35 (25 minutes)*

**Presenter:** HALIC, Leon (Rudjer Boskovic Institute (HR))

**Session Classification:** Student talks

Contribution ID: 20

Type: **not specified**

## **Semi-empirical X-ray production cross sections for Heavy Ion PIXE**

*Thursday 20 April 2023 13:30 (25 minutes)*

**Presenter:** MASEKANE, Masedi

**Session Classification:** Student talks

Contribution ID: 21

Type: **not specified**

## **Structure of light atomic nuclei studied with nuclear reaction $^{14}\text{N} + ^{10}\text{B}$**

**Presenter:** PALADA, Luka

**Session Classification:** Student talks

Contribution ID: 22

Type: **not specified**

## **Ion beam fabrication and optical characterization of color centers in diamond**

*Thursday 20 April 2023 13:55 (25 minutes)*

**Presenter:** MATIJEVIĆ, Matija (Ruđer Bošković Institute)

**Session Classification:** Student talks

Contribution ID: 23

Type: **not specified**

# Triple Higgs boson production with six bottom quark final state at the Large Hadron Collider

*Thursday 20 April 2023 14:40 (25 minutes)*

**Presenter:** Ms CHITRODA, Bhakti Kanulal (Rudjer Boskovic Institute (HR))

**Session Classification:** Student talks



Contribution ID: 24

Type: **not specified**

## Carbon (16) in all its glory

*Thursday 20 April 2023 15:05 (25 minutes)*

**Presenter:** SIGMUND, Margareta

**Session Classification:** Student talks

Contribution ID: 25

Type: **not specified**

# High resolution X-ray spectrometry with focused ion beam

*Thursday 20 April 2023 15:30 (25 minutes)*

**Presenter:** MIOKOVIĆ, Anja

**Session Classification:** Student talks

Contribution ID: 26

Type: **not specified**

## Talk 22

**Session Classification:** Student talks

Contribution ID: 27

Type: **not specified**

## Social event

*Thursday 20 April 2023 16:00 (4 hours)*

**Session Classification:** Social event

Contribution ID: **28**

Type: **not specified**

## Introduction

*Wednesday 19 April 2023 09:10 (5 minutes)*

**Presenters:** KLICEK, Budimir (Rudjer Boskovic Institute (HR)); BOZICEVIC MIHALIC, Iva (Rudjer Boskovic Institue); Dr MIJATOVIC, Tea (RBI)

**Session Classification:** Introduction