

Session Program

19-20 Apr 2023

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

Student talks

Ruđer Bošković Institute, 3rd wing lecture hall

Wednesday 19 April

10:00

Student talks: Student talks 1

Session | **Location:** Ruđer Bošković Institute, 3rd wing lecture hall | **Convener:** Budimir Klicek

10:00–10:25

Quantum communication experiments with entangled photon pairs

Speaker

Matej Peranić

10:25–10:50

Diamond: the devil is in the defects

Speaker

Andreo Crnjac

10:50–11:10

Cofee break

11:10–11:35

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

Speaker

Josipa Diklic

11:35–12:00

Multitracer analysis of the LOFAR Two-Metre Sky Survey data

Speaker

Ana Erceg

12:00

13:30

Student talks: Student talks 2

Session | **Location:** Ruđer Bošković Institute, 3rd wing lecture hall | **Convener:** Vuko Brigljevic

13:30–13:55

Clustering in neutron-rich Be and B isotopes

Speaker

Nikola Vukman

13:55–14:20

Studying nuclear materials with ion beam irradiation

Speaker

Toni Dunatov

14:20–14:40

Cofee break

14:40–15:05

Neutron Activation Analysis: Associated Alpha Particle Technique

Speaker

Josip Batur

15:05–15:30

Higgs as a tool for discovering new physics at the LHC

Speaker

Matej Roguljic

15:30–15:55

Study of semiconducting detectors using Ion Beam Induced Charge technique

15:55

Speaker

Karla Ivanković

Thursday 20 April

10:00

Student talks: Student talks 3

Session | **Location:** Ruđer Bošković Institute, 3rd wing lecture hall | **Convener:** Iva Bozicevic Mihalic

10:00–10:25 **Carbon sequestration dynamics in the recent marine sediments**

Speaker

Andrija Vinković

10:25–10:50 **Development of low noise diamond detectors**

Speaker

Milan Vicentijevic

10:50–11:10 **Coffee break**

11:10–11:35

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

Speaker

Marta Fatović

11:35–12:00

Neutrino interaction cross section measurements with the ENUBET experiment

Speaker

Leon Halic

12:00

13:30

Student talks: Student talks 4

Session | **Location:** Ruđer Bošković Institute, 3rd wing lecture hall | **Convener:** Dr Tea Mijatovic

13:30–13:55 **Semi-empirical X-ray production cross sections for Heavy Ion PIXE**

Speaker

Masedi Masekane

13:55–14:20

Ion beam fabrication and optical characterization of color centers in diamond

Speaker

Matija Matijević

14:20–14:40 **Coffee break**

14:40–15:05

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

Speaker

Ms Bhakti Kanulal Chitroda

15:05–15:30 **Carbon (16) in all its glory**

Speaker

Margareta Sigmund

15:30–15:55

High resolution X-ray spectrometry with focused ion beam

Speaker

Anja Mioković

15:55