

BRDA 2024: Long life to the Standard Model

Wednesday 2 October 2024 - Friday 4 October 2024

Belica

Book of Abstracts

Contents

Jonathan Kriewald	1
Yutaro Shoji	1
Shaikh Saad	1
Katarina Trailović	1
Pietro Baratella	1
Marco Matteini	1
Blaž Bortolato	2
Aleks Smolkovič	2
António Torres Manso	2
Luka Jevšenak	2
Patrick Stengel	2
Patrick Bolton	2
Nikiša Plešec	3
Lovre Pavičić	3
Ivan Vujmilović	3
Michele Tammaro	3
Jure Zupan	3
Arman Korajac	3

1

Jonathan Kriewald

Type II lepton number violation at the LHC

2

Yutaro Shoji

Towards Coleman-like description of vacuum decay in the transverse field Ising model

3

Shaikh Saad

Di-quark Assisted Dark Decay of the Neutron

4

Katarina Trailović

Cosmic Strings from Tribid Inflation

5

Pietro Baratella

Thermodynamics from the S-matrix reloaded

6

Marco Matteini

From vacuum decay to gravitational waves

7

Blaž Bortolato

Composition of Ultra-High Energy Cosmic Rays

8

Aleks Smolkovič

Phenomenology, but fast

9

António Torres Manso

Schwinger pair production in de Sitter: Regularizing negative conductivities

10

Luka Jevšenak

A path towards $D \rightarrow \rho \ell \nu$ in lattice QCD

11

Patrick Stengel

SMASHROCS

12

Patrick Bolton

Signatures of light new particles in B to K Emiss

13

Nikiša Plešec

False Vacuum Decay Rate of a Scalar Field at One Loop

14

Lovre PavičićMinimal scalar leptoquark model for $R_{D^{(*)}}$

15

Ivan Vujmilović T_{cc} via plane wave approach and including diquark-antidiquark operators

16

Michele TammaroExtending the potential of $\text{Mu}3e$ to light and heavy new physics

17

Jure Zupan

Solving the inverse problem for hadronization

18

Arman KorajacMET + b \bar{b} and its backgrounds