

PROGRAM FOR THE FUNDAMENTALS

Summer School in High-Energy and Gravitational Physics

16 - 20 September 2024 in Split, Croatia

Monday, 16th of September

10:30 - 11:15 REGISTRATIONS

11:45 - 12:00 Opening

12:00 – 13:15 GORAN SENJANOVIĆ

Left-right symmetry in nature

13:15 - 15:00 LUNCH BREAK

15:00 – 16:15 PAULA-IRENE VILLA BRASLAVSKY

Simply the best? - On the relevance of social positions

and normative assumptions in academic careers

19:00 Welcome Drinks

TUESDAY, 17TH OF SEPTEMBER

10:00 - 11:15 TINA POTTER

Seeing the invisible; the Dark Matter puzzle

11:45 - 13:00 Blazenka Melic

Flavour physics in a triangle

13:15 - 15:30 Lunch break

15:30 – 16:45 Kristof Schmieden

The quest for Axions

- Attempting to clean up dark matter and more

18:00 Split city Tour

Wednesday, 18th of September

10:00 - 11:15 **Z**VONIMIR **V**LAH

Prospects in precision cosmology in light of upcoming observations

11:45 - 13:00 JIA LIU

AI in Physics: A Rapid Introduction

to Revolutionary Tools

13:15 - 15:00 LUNCH BREAK

15:00 – 16:15 HITOSHI MURAYAMA

TBA

16:15 - 16:45	Coffee Break
16:45 - 19:00	POSTER SESSION

10:00 - 11:15 YARON OZ

THURSDAY, 19TH OF SEPTEMBER

10:00-11:15	Misao Sasaki
	Primordial Inflation: Known Knowns,
	Known Unknowns, and Unknown Unknowns
11:15-11:45	Coffee Break
11:45-13:00	EDWARD W. KOLB
	Sailing the Seething Sea of Quantum Uncertainty
13:15-15:30	LUNCH BREAK
15:30-16:45	DIETER LÜST
	Swampland and Dark Relations
20:00	Speaker dinner

FRIDAY, 20TH OF SEPTEMBER

	Unraveling Turbulence: Modern Viewpoints
	On An Unsolved Problem
11:15 - 11:45	Coffee Break
11:45 - 13:00	Ali Chamsedinne
	Mimetic Gravity: A Review
13:15 - 15:30	LUNCH BREAK
15:30 - 16:45	VIATCHESLAV MUKHANOV
	Gravitationally dominated instantons
17:15 - 17:30	Closing
18:00	PUBLIC TALK BY ANDREAS BURKERT
	"Big Bang and Star Dust:
	Uncovering our Cosmic Origin"
19:30	BajBaj Party