

PARTICLE PHYSICS SUMMER SCHOOL



sunday
15
JULY

STUDENTS ARRIVAL (TRANSPORT FROM VENICE AIRPORT)
ACCOMMODATION IN UDINE

SYLLABUS

monday	8. ⁰⁰ – 8. ⁴⁵	Breakfast
16 JULY	9. ⁰⁰ – 9. ³⁰	Welcome in Udine
	9. ³⁰ – 11. ³⁰	Quantum Mechanics I
	11. ³⁰ – 12. ³⁰	Relativity I
	12. ³⁰ – 14. ⁰⁰	Lunch
	14. ⁰⁰ – 16. ⁰⁰	Relativity II
	16. ⁰⁰ – 17. ⁰⁰	Quantum Mechanics II
	17. ⁰⁰ – 19. ⁰⁰	Guide Tour of Udine
	19. ⁰⁰ – 20. ³⁰	Dinner

tuesday	8. ⁰⁰ – 8. ⁴⁵	Breakfast
17 JULY	9. ⁰⁰ – 11. ⁰⁰	Standard Model Intro
	11. ⁰⁰ – 12. ⁰⁰	Standard Model Intro
	12. ⁰⁰ – 14. ⁰⁰	Lunch
	14. ⁰⁰ – 16. ⁰⁰	Radiation Matter
	16. ⁰⁰ – 17. ⁰⁰	Radiation Matter
	17. ⁰⁰ – 19. ⁰⁰	Free time with a tutor, on demand
	19. ⁰⁰ – 20. ³⁰	Dinner

wednesday	8. ⁰⁰ – 8. ⁴⁵	Breakfast
18 JULY	9. ⁰⁰ – 11. ⁰⁰	Cosmic Rays (antimatter)
	11. ⁰⁰ – 12. ⁰⁰	Leptons I
	12. ⁰⁰ – 14. ⁰⁰	Lunch
	14. ⁰⁰ – 16. ⁰⁰	Leptons II
	16. ⁰⁰ – 17. ⁰⁰	Quarks
	17. ⁰⁰ – 19. ⁰⁰	Free time with a tutor, on demand
	19. ⁰⁰ – 20. ³⁰	Dinner

thursday	8. ⁰⁰ – 8. ⁴⁵	Breakfast
19 JULY	9. ⁰⁰ – 10. ⁰⁰	Gauge Boson I
	10. ⁰⁰ – 12. ⁰⁰	Detectors I
	12. ⁰⁰ – 14. ⁰⁰	Lunch
	14. ⁰⁰ – 15. ⁰⁰	Detectors II
	15. ⁰⁰ – 17. ⁰⁰	Gauge Boson II
	17. ⁰⁰ – 19. ⁰⁰	Free time with a tutor, on demand
	19. ⁰⁰ – 20. ³⁰	Dinner

friday	8. ⁰⁰ – 8. ⁴⁵	Breakfast
20 JULY	9. ⁰⁰ – 11. ⁰⁰	Detectors III
	11. ⁰⁰ – 12. ⁰⁰	CERN and LHC
	12. ⁰⁰ – 14. ⁰⁰	Lunch
	14. ⁰⁰ – 17. ⁰⁰	Detection of Cosmic Rays
	17. ⁰⁰ – 19. ⁰⁰	Free time with a tutor, on demand
	19. ⁰⁰ – 20. ³⁰	Dinner

saturday	7. ⁰⁰ – 7. ⁴⁵	Breakfast
21 JULY	8. ³¹ – 10. ⁴⁵	Train to Venice
	11. ⁰⁰ – 12. ³⁰	Guide Tour of Venice
	12. ³⁰ – 14. ⁰⁰	Lunch
	14. ⁰⁰ – 16. ³⁰	Free time with a tutor, on demand
	17. ¹⁵ – 19. ³⁰	Way Back to Udine
	20. ⁰⁰ – 21. ⁰⁰	Dinner

sunday 22 JULY	8. ⁰⁰ – 8. ⁴⁵	Breakfast
	9. ⁰⁰ – 13. ⁰⁰	Free activities with a tutor to be defined
	13. ⁰⁰ – 15. ⁰⁰	Lunch
	15. ⁰⁰ – 19. ⁰⁰	Free activities with a tutor to be defined
	19. ⁰⁰ – 20. ³⁰	Dinner

monday 23 JULY	8. ⁰⁰ – 8. ⁴⁵	Breakfast
	9. ⁰⁰ – 10. ⁰⁰	Masterclass I
	10. ⁰⁰ – 12. ⁰⁰	Masterclass, Theory
	12. ⁰⁰ – 14. ⁰⁰	Lunch
	14. ⁰⁰ – 17. ⁰⁰	Exercise and discussion
17. ⁰⁰ – 19. ⁰⁰	Free time with a tutor, on demand	
19. ⁰⁰ – 20. ³⁰	Dinner	

tuesday 24 JULY	8. ⁰⁰ – 8. ⁴⁵	Breakfast
	9. ⁰⁰ – 10. ⁰⁰	Higgs, Theory and discussion
	10. ⁰⁰ – 12. ⁰⁰	Higgs, Theory and discussion
	12. ⁰⁰ – 14. ⁰⁰	Lunch
	14. ⁰⁰ – 17. ⁰⁰	Higgs, Comp. Lab. I
17. ⁰⁰ – 19. ⁰⁰	Free time with a tutor, on demand	
19. ⁰⁰ – 20. ³⁰	Dinner	

wednesday 25 JULY	8. ⁰⁰ – 8. ⁴⁵	Breakfast
	9. ⁰⁰ – 12. ⁰⁰	Higgs, Comp. Lab. I
	12. ⁰⁰ – 14. ⁰⁰	Lunch
	14. ⁰⁰ – 17. ⁰⁰	BSM & Dark Matter
	17. ⁰⁰ – 19. ⁰⁰	Free time with a tutor, on demand
19. ⁰⁰ – 20. ³⁰	Dinner	

thursday 26 JULY	8. ⁰⁰ – 8. ⁴⁵	Breakfast
	9. ⁰⁰ – 12. ⁰⁰	Accelerators I
	12. ⁰⁰ – 14. ⁰⁰	Lunch
	14. ⁰⁰ – 17. ⁰⁰	Accelerators II
	17. ⁰⁰ – 19. ⁰⁰	Free time with a tutor, on demand
19. ⁰⁰ – 20. ³⁰	Dinner	

friday 27 JULY	7. ⁰⁰ – 7. ⁴⁵	Breakfast
	8. ⁰⁰ – 9. ⁰⁰	Bus to Trieste
	9. ⁰⁰ – 12. ⁰⁰	Sincrotron Visit
	12. ⁰⁰ – 14. ⁰⁰	Lunch in Trieste
	14. ⁰⁰ – 19. ⁰⁰	Visit of Trieste, Miramare Castle, Sunbathing and Swimming in the Adriatic Sea
19. ⁰⁰ – 20. ⁰⁰	Come back to Udine	
20. ⁰⁰ – 21. ⁰⁰	Dinner	

saturday 28 JULY	8. ⁰⁰ – 8. ⁴⁵	Breakfast
		Students departure (transport to Venice Airport) According to the Flight Time

DIDACTIC INFO

DIRECTOR OF THE SCHOOL:

professor Marina Cobal

<https://thecobal.wordpress.com/informazioni/>

ORGANIZATIONAL INFO

- > We require students to use for their arrival/departure the international Venice Marco Polo Airport and to use possibly the same flights.
- > We highly recommend students to pack their swimsuit, beach slippers and sun cream for their free time in Trieste