

## Monday 10.9.2018

4:00-6:00 PM	Registration at the student centre
6:00-6:30 PM	Welcome speech
6:30 PM	Welcome party

## Tuesday 11.9.2018

8:30 -9:00 AM	Introduction to QFT I
9:00- 9:30 AM	Coffee break
9:30 -10:30 AM	Introduction to QFT I
10:30-11:30 AM	Scattering theory I
11:30-1:15 PM	Lunch
1:15-3:15 PM	How it all began and how it works-an introduction to particle physics experiments
4:15-6:15 PM	Tour around Split

## Wednesday 12.9.2018

9:00 -10:00 AM	Introduction to QFT II
10:00- 10:30 AM	Coffee Break
10:30 -11:30 AM	Scattering theory II
11:45-12:45 AM	Renormalization as the way of explaining the counterintuitive Part I
12:45-2:15 PM	Lunch
2:15-3:15 PM	Renormalization as the way of explaining the counterintuitive Part II

## Thursday 13.9.2018

9:00-10:00 AM	QED: When anomalous predictions get confirmed beyond any doubt Part I
10:00-10:30 AM	Coffee break
10:30-11:30 AM	QED: When anomalous predictions get confirmed beyond any doubt Part II
11:45-12:45 AM	Workshop I
12:45-2:15 PM	Lunch
2:15-4:15 PM	Muon g-2 experiment

## Friday 14.9.2018

9:00-10:00 AM	The theory of the colour force: From its mathematical description to the physical interactions between quarks and gluons Part I
10:00-10:30 AM	Coffee break
10:30-11:30 AM	The theory of the colour force: From its mathematical description to the physical interactions between quarks and gluons Part II
11:45-12:45 AM	Workshop II
12:45-2:15 PM	Lunch
2:15-4:15 PM	B-quark physics at LHCb and Belle2

## Saturday 15.9.2018

9:00-10:00 AM Ghost: why it is important to believe or not in them Part I  
10:00-10:30 AM Coffee break  
10:30-11:30 AM Ghost: why it is important to believe or not in them Part II  
11:45-12:45 AM Workshop III  
12:45-2:15 PM Lunch  
2:15-3:15 PM The God's particle that Higgs does not like Part I  
3:15-4:15 PM Guest lecture

## Sunday 16. 9. 2018

9:00-10:00 AM The God's particle that Higgs does not like Part II  
10:00-10:30 AM Coffee break  
10:30-11:30 AM Guest lecture  
11:45-12:45 AM Workshop IV  
12:45-2:15 PM Lunch  
2:15-3:15 PM Guest lecture  
4:15-5:15 PM Guest lecture

## Monday 17.9.2018

9:00 AM - 18:00 F Optional group activity

## Tuesday 18.9.2018

9:00-10:00 AM Glashow Weinberg Salam model Part I  
10:00-10:30 AM Coffee break  
10:30-12:30 AM Glashow Weinberg Salam model Part II  
12:45-2:15 PM Lunch  
2:15-3:15 PM Workshop V  
3:15-4:15 PM Guest lecture

## Wednesday 19.9.2018

9:00-10:00 AM Foundations of supersymmetric theories Part I  
10:00-10:30 AM Coffee break  
10:30-12:30 AM Foundations of supersymmetric theories Part II  
12:45-2:15 PM Lunch  
2:15-3:15 PM Workshop VI  
3:15-5:15 PM From theory to experiment: How to hunt for Supersymmetry?  
8:00 PM Summer school dinner

## Thursday 20.9.2018

9:00-10:30 AM Introduction to Solitons: Why topology matters Part I  
10:30-11:00 AM Coffee break  
11:00-12:30 PM Introduction to Solitons: Why topology matters Part II  
12:30-1:00 PM Conclusion of the summer school