

BND School, Berlin | 10–21 Sept 2018

	MO, 10 Sep	TUE, 11 Sep	WED, 12 Sep	THU, 13 Sep	FRI, 14 Sep	SA, 15 Sep	SU, 16 Sep
9:00-10:30		QFT	QFT	QFT	Tutorial: QFT & QCD	Astroparticle Physics with photons	Free time
Coffee Break		Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Visit German Parliament 15:15 - 17:00
11:00-12:30	Registration	QCD	QCD	QCD	Event Generation	Calorimetry	Free time
Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Events in Berlin: Marathon
14:30-16:00	QFT	Tutorial: QFT & QCD	Tutorial: QFT & QCD	Tutorial: QFT & QCD	Event Generation	Calorimetry	
Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
16:30-18:00	QCD	Experiments with ultra-high cosmic rays and neutrinos	Experiments with ultra-high cosmic rays and neutrinos	Experimental tests of QCD	Experimental tests of QCD	Student project (Calorimeter simulation)	
18:00	Reception Come together	Dinner	Dinner	Dinner	Dinner	Dinner	optional Dinner
20:00-22:00		IceCube Installation, Berlin Goops and gimmicks and neutrinos Christian Spiering					

	MO, 17 Sep	TUE, 18 Sep	WED, 19 Sep	THU, 20 Sep	FRI, 21 Sep
9:00-10:30	Astroparticle Physics with photons	The physics of Axions	BSM physics	BSM physics	Maschine learning
Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Check out - latest 11:00 Coffee Break
11:00-12:30	Calorimetry	The physics of Axions	BSM physics	Machine learning	Maschine learning
Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14:30-16:00	Calorimetry	BSM physics	Excursion 14:30, HZB, BESSY CTA Prototyp DESY BBQ at DESY lakeside	Machine learning	Departure
Coffee Break	Coffee Break	Coffee Break		Coffee Break	
16:30-18:00	Student project (Calorimeter simulation)	Student project (Calorimeter simulation)		Student project (Calorimeter simulation)	
18:00	Dinner	Dinner		Dinner	
20:00-22:00	Evening Lecture Biology with Accelerators Dominik Oberthuer				

Scientific Programme

Astroparticle Physics with photons, Gernot Maier (DESY)
 BSM physics, Michael Kraemer (Aachen)
 Calorimetry, Erica Garutti (U. Hamburg)
 Event generation, Frank Siegert (Dresden)
 Experimental tests of QCD, Matthias Schott (Mainz)
 Experiments with ultra-high cosmic rays and neutrinos, Ioana Maris (ULB)
 Machine learning, Sascha Caron (Nijmegen)
 QCD Tutorials
 QFT Tutorial
 Quantum Chromo Dynamics, Wouter Waalewijn (NIKHEF)
 Quantum Field Theory, Jan Govaerts (Louvain)
 Student project (Calorimeter simulation), Thorsten Kuhl (DESY)
 The physics of Axions, Babette Dobrich (CERN)