

Schedule	Monday Jan 20	Tuesday Jan 21	Wednesday Jan 22	Thursday Jan 23	Friday Jan 24	
09:00	Arrival	Experimental Subatomic Physics lecture 1 Marco Delmastro <i>LAPP Annecy</i>	Experimental Subatomic Physics lecture 3 Marco Delmastro <i>LAPP Annecy</i>	Experimental Subatomic Physics lecture 4 Marco Delmastro <i>LAPP Annecy</i>	Experimental Subatomic Physics lecture 5 Marco Delmastro <i>LAPP Annecy</i>	
10:30		Coffee Break	Coffee Break	Coffee Break	Coffee Break	
10:45		Experimental Subatomic Physics lecture 2 Marco Delmastro <i>LAPP Annecy</i>	Experimental Subatomic Physics tutorial 1 Marco Delmastro <i>LAPP Annecy</i>	Experimental Subatomic Physics tutorial 2 Marco Delmastro <i>LAPP Annecy</i>	Experimental Subatomic Physics tutorial 3 Marco Delmastro <i>LAPP Annecy</i>	
12:00		12:00 OFFICIAL OPENING (welcome & building visit)	Marco Delmastro <i>LAPP Annecy</i>	Marco Delmastro <i>LAPP Annecy</i>	Marco Delmastro <i>LAPP Annecy</i>	Marco Delmastro <i>LAPP Annecy</i>
12:15		13:00 WELCOME LUNCH	BREAK	BREAK	BREAK	BREAK
14:00		14:30 Presentation of ESIPAP & Presentation of students Johann Collot ESIPAP Director	Experimental Cosmology lecture 1 Juan Macias Perez <i>LPSC Grenoble</i>	Experimental Cosmology lecture 3 Juan Macias Perez <i>LPSC Grenoble</i>	Experimental Cosmology tutorial 2 Juan Macias Perez <i>LPSC Grenoble</i>	Experimental Subatomic Physics tutorial 4 Marco Delmastro <i>LAPP Annecy</i>
15:30		Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
15:45		16:00 - 17:30 INAUGURAL LESSON TBC	Experimental Cosmology lecture 2 Juan Macias Perez <i>LPSC Grenoble</i>	Experimental Cosmology tutorial 1 Juan Macias Perez <i>LPSC Grenoble</i>	Experimental Cosmology tutorial 3 Juan Macias Perez <i>LPSC Grenoble</i>	Experimental Subatomic Physics tutorial 5 Marco Delmastro <i>LAPP Annecy</i>
17:15		CHECK-IN AT THE RESIDENCE & SHOPPING FOR GROCERIES				
18:15				AFTER WORK AT ESI		

ESIPAP TIMETABLE 2020 WEEK 2

Schedule	Monday Jan 27	Tuesday Jan 28	Wednesday Jan 29	Thursday Jan 30	Friday Jan 31	Saturday Feb 1
08:45	Evaluation of Week 1				<p><i>Bus leaves at 7:00 from ESIPAP</i></p> <p>(Lunch at CERN)</p> <p>Lab Training Sessions at CERN</p> <p><i>Return scheduled at 18:00</i></p>	
09:00	Experimental Astroparticle Physics lecture 1 François Montanet LPSC Grenoble	Experimental Astroparticle Physics lecture 3 François Montanet LPSC Grenoble	Tracking : lecture 1 Jérôme Baudot IPHC Strasbourg	Tracking : lecture 3 Jérôme Baudot IPHC Strasbourg		9:00 - 10:00 Exam EAP
10:30	Coffee Break	Coffee Break	Coffee Break	Coffee Break		Coffee Break
10:45	Experimental Astroparticle Physics lecture 2 François Montanet LPSC Grenoble	Experimental Astroparticle Physics tutorial 1 François Montanet LPSC Grenoble	Tracking : lecture 2 Jérôme Baudot IPHC Strasbourg	Tracking : tutorial Jérôme Baudot IPHC Strasbourg		10:15 - 11:15 Exam EC
12:15	WORKING LUNCH	BREAK	BREAK	BREAK		Coffee Break
14:00	Interaction of Particles with Matter lecture 1 Lucia di Ciaccio LAPP Annecy	Interaction of Particles with Matter lecture 2 Lucia di Ciaccio LAPP Annecy	Radioprotection Helmut Vincke CERN	Stochastic & Statistical Aspects : part 1 lecture 1 Laura Ferraris-Bouchez LPSC Grenoble		11:30 - 13:00 Exam ESP
15:30	Coffee Break	Coffee Break	Coffee Break	Coffee Break		
15:45	Interaction of Particles with Matter tutorial 1 Lucia di Ciaccio LAPP Annecy	Interaction of Particles with Matter tutorial 2 Lucia di Ciaccio LAPP Annecy	Radioprotection Helmut Vincke CERN	Stochastic & Statistical Aspects : part 1 lecture 2 Laura Ferraris-Bouchez LPSC Grenoble		
17:15		Free-Electron Lasers Seminar (JUAS) E. Prat		LHC & Future High-Energy Circular Collider Seminar (JUAS) O. Bruning		
18:15				AFTER WORK AT ESI		

ESIPAP TIMETABLE 2020 WEEK 3

Schedule	Monday Feb 3	Tuesday Feb 4	Wednesday Feb 5	Thursday Feb 6	Friday Feb 7
08:45 09:00	Evaluation of Week 2				<p><i>Bus leaves at 7:00 from ESIPAP</i></p> <p><i>(Lunch at CERN)</i></p> <p>Lab Training Sessions at CERN</p> <p><i>Return scheduled at 18:00</i></p>
10:30 10:45	Calorimetry : lecture 1 Christophe Ochando <i>CNRS</i>	Calorimetry : lecture 3 Christophe Ochando <i>CNRS</i>	Muon Detection lecture 1 Laurent Chevalier <i>CEA-IRFU Saclay</i>	Muon Detection lecture 3 Laurent Chevalier <i>CEA-IRFU Saclay</i>	
12:15	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
14:00	Machine learning lecture 1 Yann Coadou <i>CPPM Marseille</i>	Decision trees lecture 3 Yann Coadou <i>CPPM Marseille</i>	Muon Detection lecture 2 Laurent Chevalier <i>CEA-IRFU Saclay</i>	Muon Detection tutorial Laurent Chevalier <i>CEA-IRFU Saclay</i>	
15:30 15:45	WORKING LUNCH	BREAK	BREAK	BREAK	
17:15	Machine learning lecture 2 Yann Coadou <i>CPPM Marseille</i>	Decision trees lecture 4 Yann Coadou <i>CPPM Marseille</i>	Imaging and Cherenkov Detectors : lecture 1 François Montanet <i>LPSC Grenoble</i>	Imaging and Cherenkov Detectors : lecture 3 François Montanet <i>LPSC Grenoble</i>	
18:15	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
	Calorimetry : lecture 2 Christophe Ochando <i>CNRS</i>	Calorimetry : lecture 4 Christophe Ochando <i>CNRS</i>	Imaging and Cherenkov Detectors : lecture 2 François Montanet <i>LPSC Grenoble</i>	Exam IPM	
				Future High-Energy Linear Colliders Seminar (JUAS) <i>L. Rinolfi</i>	
			AFTER WORK AT ESI		

ESIPAP TIMETABLE 2020 WEEK 4

Schedule	Monday Feb 10	Tuesday Feb 11	Wednesday Feb 12	Thursday Feb 13	Friday Feb 14	Saturday Feb 15
08:45	Evaluation of Week 3					
09:00	Detector Simulation Witold Pokorski <i>CERN</i>	Detector Simulation Alberto Ribon <i>CERN</i>	Computing sessions Eric Chabert <i>IPHC Strasbourg</i> Eric Conte <i>IUT de Colmar</i>	Computing sessions Eric Chabert <i>IPHC Strasbourg</i> Eric Conte <i>IUT de Colmar</i>	9:00 - 10:30 Exam Calorimetry	9:30 - 11:00 Exam Tracking
10:30	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
10:45	Detector Simulation Witold Pokorski <i>CERN</i>	Detector Simulation Alberto Ribon <i>CERN</i>	Computing sessions Eric Chabert <i>IPHC Strasbourg</i> Eric Conte <i>IUT de Colmar</i>	Computing sessions Eric Chabert <i>IPHC Strasbourg</i> Eric Conte <i>IUT de Colmar</i>	Particle Identification Guillaume Unal <i>CERN</i>	11:30 - 13:00 Exam Muon
12:15	WORKING LUNCH	BREAK	BREAK	BREAK	BREAK	Evaluation of Week 4
14:00	C++ Programming Eric Chabert <i>IPHC Strasbourg</i>	C++ Programming Eric Chabert <i>IPHC Strasbourg</i>	Computing sessions Eric Chabert <i>IPHC Strasbourg</i> Eric Conte <i>IUT de Colmar</i>	Computing sessions Eric Chabert <i>IPHC Strasbourg</i> Eric Conte <i>IUT de Colmar</i>	Particle Identification Guillaume Unal <i>CERN</i>	
15:30	Coffee Break	Coffee Break	Coffee Break	Coffee Break		
15:45	C++ Programming Eric Chabert <i>IPHC Strasbourg</i>	C++ Programming Eric Chabert <i>IPHC Strasbourg</i>	Computing sessions Eric Chabert <i>IPHC Strasbourg</i> Eric Conte <i>IUT de Colmar</i>	Computing sessions Eric Chabert <i>IPHC Strasbourg</i> Eric Conte <i>IUT de Colmar</i>		
17:15		C++ Programming Eric Chabert <i>IPHC Strasbourg</i>	Computing sessions Eric Chabert <i>IPHC Strasbourg</i> Eric Conte <i>IUT de Colmar</i>			
18:45			AFTER WORK AT ESI			



ESIPAP TIMETABLE 2020 WEEK 5

Detector Technologies & Electronics

Schedule	Monday Feb 17	Tuesday Feb 18	Wednesday Feb 19	Thursday Feb 20	Friday Feb 21
09:00	Arrival	Detector Technologies Jean-Marie Brom <i>IPHC Strasbourg</i>	Low Temperature Detectors Martino Calvo	Signal Processing and Electronics Daniel Dzahini	Signal Processing and Electronics Daniel Dzahini
10:30 10:45		Coffee Break	Coffee Break	Coffee Break	Coffee Break
12:15	12:00 OFFICIAL OPENING (welcome & building visit)	Detector Technologies Jean-Marie Brom <i>IPHC Strasbourg</i>	Detector Technologies Jean-Marie Brom <i>IPHC Strasbourg</i>	Signal Processing and Electronics Daniel Dzahini	Detector Technologies noble liquid detectors Johann Collot <i>LPSC Grenoble</i>
14:00	13:00 WELCOME LUNCH	BREAK	BREAK	BREAK	BREAK
15:30 15:45	14:30 Presentation of ESIPAP & Presentation of students	Signal Processing and Electronics Daniel Dzahini	Signal Processing and Electronics Daniel Dzahini	Detector Technologies Jean-Marie Brom <i>IPHC Strasbourg</i>	Detector Technologies tutorials Johann Collot <i>LPSC Grenoble</i>
17:15	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
	Reminder on Particle Interaction with Matter Johann Collot <i>LPSC Grenoble</i>	Signal Processing and Electronics Daniel Dzahini	Signal Processing and Electronics Daniel Dzahini	Signal Processing and Electronics Daniel Dzahini	Gravitational wave detection Romain Gouaty <i>LAPP</i>
	CHECK-IN AT THE RESIDENCE & SHOPPING FOR GROCERIES	Particle accelerators, instruments of discovery in physics Seminar - <i>Ph. Lebrun</i>	Accelerator driven system Seminar <i>M. Baylac</i>		
			AFTER WORK AT ESI		



ESIPAP TIMETABLE 2020 WEEK 6

Real Time Computing & Data Handling

Schedule	Monday Feb 24	Tuesday Feb 25	Wednesday Feb 26	Thursday Feb 27	Friday Feb 28
08:45 09:00	Evaluation of Week 5				<p><i>Bus leaves at 8:00 from ESIPAP</i></p> <p>(Lunch at CERN)</p> <p>Lab Training Sessions at CERN</p> <p><i>Return scheduled at 18:00</i></p>
10:30 10:45	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
12:15	WORKING LUNCH	BREAK	BREAK	BREAK	
14:00	Exam : SPE	Trigger Francesca Pastore <i>University of London</i>	Data Handling Technologies Alberto Pace <i>CERN</i>	Project Management Pierre Bonnal <i>CERN</i>	
15:30 15:45	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
17:15	Exam : DT	Trigger and Data Acquisition Software Enrico Pasqualucci <i>INFN</i>	Data Handling Technologies Alberto Pace <i>CERN</i>	Project Management Pierre Bonnal <i>CERN</i>	
		FPGA Hannes Sakulin <i>CERN</i>			
			AFTER WORK AT ESI		



ESIPAP TIMETABLE 2020 WEEK 8

Offline Computing

Schedule	Monday March 9	Tuesday March 10	Wednesday March 11	Thursday March 12	Friday March 13
08:45 09:00	Evaluation of Week 7				
10:30 10:45	Exam : UCN	C++ Programming Sébastien Ponce <i>CERN</i>	C++ Programming Sébastien Ponce <i>CERN</i>	C++ Programming Sébastien Ponce <i>CERN</i>	<p>10:00 - 13:00 The Ariane Odyssey, from Ariane 1 to Ariane 6 (part 1)</p> <p>Isabelle Rongier <i>ASL</i> & Jan Droz <i>CNES</i></p> <p>13:00 LUNCH OFFERED BY ESI</p> <p>14:00 - 15:30 The Ariane Odyssey, from Ariane 1 to Ariane 6 (part 2)</p>
12:15	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
14:00	Magnets for Particle Detectors Herman Ten Kate <i>CERN</i>	C++ Programming Sébastien Ponce <i>CERN</i>	C++ Programming Sébastien Ponce <i>CERN</i>	C++ Programming Sébastien Ponce <i>CERN</i>	
15:30 15:45	WORKING LUNCH	BREAK	BREAK	BREAK	
17:15	Magnets for Particle Detectors Herman Ten Kate <i>CERN</i>	Grid Computing Catherine Biscarat <i>LPSC Grenoble</i>	Python Programming Jérôme Odier <i>CNRS</i>	Exam : MA	
	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
	Magnets for Particle Detectors Herman Ten Kate <i>CERN</i>	Grid Computing Catherine Biscarat <i>LPSC Grenoble</i>	Python Programming Jérôme Odier <i>CNRS</i>	Exam : MPD	Evaluation of Week 8
					END OF ESIPAP 2019