

ESIPAP TIMETABLE 2019 WEEK 1

Schedule 2019	Monday Jan 21st	Tuesday Jan 22nd	Wednesday Jan 23rd	Thursday Jan 24th	Friday Jan 25th	
09:00	Arrival	Experimental Cosmology lecture 1 Juan Macias Perez <i>LPSC Grenoble</i>	Experimental Subatomic Physics lecture 1 Marco Delmastro <i>LAPP Anecy</i>	Experimental Subatomic Physics lecture 3 Marco Delmastro <i>LAPP Anecy</i>	Experimental Subatomic Physics lecture 5 Marco Delmastro <i>LAPP Anecy</i>	
10:30		Coffee Break	Coffee Break	Coffee Break	Coffee Break	
10:45		Experimental Cosmology lecture 2 Juan Macias Perez <i>LPSC Grenoble</i>	Experimental Subatomic Physics lecture 2 Marco Delmastro <i>LAPP Anecy</i>	Experimental Subatomic Physics tutorial 1 Marco Delmastro <i>LAPP Anecy</i>	Experimental Subatomic Physics tutorial 3 Marco Delmastro <i>LAPP Anecy</i>	
12:00		12:00 OFFICIAL OPENING (welcome & building visit)	Juan Macias Perez <i>LPSC Grenoble</i>	Marco Delmastro <i>LAPP Anecy</i>	Marco Delmastro <i>LAPP Anecy</i>	
12:15		13:00 WELCOME LUNCH	BREAK	BREAK	BREAK	
14:00		14:30 Presentation of ESIPAP & Presentation of students Johann Collot ESIPAP Director	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 lecture 4 Marco Delmastro <i>LAPP Anecy</i>	Experimental Subatomic Physics tutorial 4 Marco Delmastro <i>LAPP Anecy</i>
15:30		Coffee Break	Coffee Break	Coffee Break	Coffee Break	
15:45		16:00 - 17:30 HL-LHC program & upgrade Didier Contardo <i>IPNL Lyon</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 2 Marco Delmastro <i>LAPP Anecy</i>	Experimental Subatomic Physics tutorial 5 Marco Delmastro <i>LAPP Anecy</i>
17:15		CHECK-IN AT THE RESIDENCE & SHOPPING FOR GROCERIES	Free-Electron Lasers JUAS Seminar <i>E. Prat</i>		LHC & Future High-Energy Circular Collider JUAS Seminar <i>O. Bruning</i>	
18:15					AFTER WORK AT ESI	

ESIPAP TIMETABLE 2019 WEEK 2

Schedule 2019	Monday Jan 28th	Tuesday Jan 29th	Wednesday Jan 30th	Thursday Jan 31st	Friday Feb 1st	Saturday Feb 2nd
09:00	Experimental Astroparticle Physics lecture 1 François Montanet LPSC Grenoble	Interaction of Particles with Matter lecture 1 Lucia di Ciaccio LAPP Annecy	Tracking : lecture 1 Jérôme Baudot IPHC Strasbourg	<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>	Radioprotection Helmut Vincke CERN	9:30 - 11:00 Exam EAP + EC
10:30	Coffee Break	Coffee Break	Coffee Break		Coffee Break	Coffee Break
10:45	Experimental Astroparticle Physics lecture 2 François Montanet LPSC Grenoble	Interaction of Particles with Matter tutorial 1 Lucia di Ciaccio LAPP Annecy	Tracking : lecture 2 Jérôme Baudot IPHC Strasbourg		Radioprotection Helmut Vincke CERN	11:30 - 13:00 Exam ESP
12:15	WORKING LUNCH	BREAK	BREAK		BREAK	
14:00	Experimental Astroparticle Physics lecture 3 François Montanet LPSC Grenoble	Interaction of Particles with Matter lecture 2 Lucia di Ciaccio LAPP Annecy	Tracking : lecture 3 Jérôme Baudot IPHC Strasbourg		Stochastic & Statistical Aspects : part 1 lecture 1 Laura Ferraris-Bouchez LPSC Grenoble	
15:30	Coffee Break	Coffee Break	Coffee Break		Coffee Break	
15:45	Experimental Astroparticle Physics tutorial 1 François Montanet LPSC Grenoble	Interaction of Particles with Matter tutorial 2 Lucia di Ciaccio LAPP Annecy	Tracking : tutorial Jérôme Baudot IPHC Strasbourg		Stochastic & Statistical Aspects : part 1 lecture 2 Laura Ferraris-Bouchez LPSC Grenoble	
17:15			Novel High Gradient Particle Accelerators JUAS Seminar R. Assmann			
18:15			AFTER WORK AT ESI			

ESIPAP TIMETABLE 2019 WEEK 3

Schedule 2019	Monday Feb 4th	Tuesday Feb 5th	Wednesday Feb 6th	Thursday Feb 7th	Friday Feb 8th
09:00	Calorimetry : lecture 1 Christophe Ochando CNRS	Calorimetry : lecture 3 Christophe Ochando CNRS	Muon Detection lecture 1 Laurent Chevalier CEA-IRFU Saclay	<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>	Muon Detection lecture 3 Laurent Chevalier CEA-IRFU Saclay
10:30	Coffee Break	Coffee Break	Coffee Break		Coffee Break
10:45	Machine learning lecture 1 Yann Coadou CPPM Marseille	Decision trees lecture 3 Yann Coadou CPPM Marseille	Muon Detection lecture 2 Laurent Chevalier CEA-IRFU Saclay		Muon Detection tutorial Laurent Chevalier CEA-IRFU Saclay
12:15	WORKING LUNCH	BREAK	BREAK		BREAK
14:00	Machine learning lecture 2 Yann Coadou CPPM Marseille	Decision trees lecture 4 Yann Coadou CPPM Marseille	Imaging and Cherenkov Detectors : lecture 1 François Montanet LPSC Grenoble		Imaging and Cherenkov Detectors : lecture 3 François Montanet LPSC Grenoble
15:30	Coffee Break	Coffee Break	Coffee Break		Coffee Break
15:45	Calorimetry : lecture 2 Christophe Ochando CNRS	Calorimetry : lecture 4 Christophe Ochando CNRS	Imaging and Cherenkov Detectors : lecture 2 François Montanet LPSC Grenoble		Exam IPM
17:15					

ESIPAP TIMETABLE 2019 WEEK 4

Schedule 2019	Monday Feb 11th	Tuesday Feb 12th	Wednesday Feb 13th	Thursday Feb 14th	Friday Feb 15th	Saturday Feb 16th
09:00	Detector Simulation Alberto Ribon <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 Alberto Ribon <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	
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>	Particle accelerators, instruments of discovery in physics JUAS Seminar <i>P. Lebrun</i>	Computing sessions Eric Chabert <i>IPHC Strasbourg</i> Eric Conte <i>IUT de Colmar</i>			
18:45			AFTER WORK AT ESI			

ESIPAP TIMETABLE 2019 WEEK 5

Detector Technologies & Electronics

Schedule 2019	Monday Feb 18th	Tuesday Feb 19th	Wednesday Feb 20th	Thursday Feb 21st	Friday Feb 22nd
09:00	Arrival	Signal Processing and Electronics Daniel Dzahini	Low Temperature Detectors Martino Calvo	Signal Processing and Electronics Daniel Dzahini	Signal Processing and Electronics Daniel Dzahini
10:30		Coffee Break	Coffee Break	Coffee Break	Coffee Break
10:45		Signal Processing and Electronics Daniel Dzahini	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>
12:15		12:00 OFFICIAL OPENING (welcome & building visit)	BREAK	BREAK	BREAK
14:00	13:00 WELCOME LUNCH	BREAK	BREAK	BREAK	
15:30	14:30 Presentation of ESIPAP & Presentation of students	Detector Technologies Jean-Marie Brom <i>IPHC Strasbourg</i>	Signal Processing and Electronics Daniel Dzahini	Detector Technologies Jean-Marie Brom <i>IPHC Strasbourg</i>	Detector Technologies tutorials Johann Collot <i>LPSC Grenoble</i>
15:45	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
17:15	Reminder on Particle Interaction with Matter Johann Collot <i>LPSC Grenoble</i>	Detector Technologies Jean-Marie Brom <i>IPHC Strasbourg</i>	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		AFTER WORK AT ESI		



ESIPAP TIMETABLE 2019 WEEK 6

Real Time Computing & Data Handling

Schedule 2019	Monday Feb 25th	Tuesday Feb 26th	Wednesday Feb 27th	Thursday Feb 28th	Friday March 1st
09:00	Ultra Cold Neutrons Guillaume Pignol <i>LPSC Grenoble</i>	Ultra Cold Neutrons Guillaume Pignol <i>LPSC Grenoble</i>	Practical on cosmic muon detection François Montanet	<p style="color: red; text-align: center;"><i>Bus leaves at 7:00 from ESIPAP</i></p> <p style="color: green; text-align: center;">(Lunch at CERN)</p> <p style="text-align: center;">Lab Training Sessions at CERN</p> <p style="color: red; text-align: center;"><i>Return scheduled at 18:00</i></p>	Data Handling Technologies Alberto Pace <i>CERN</i>
10:30	Coffee Break	Coffee Break	Coffee Break		Coffee Break
10:45	Ultra Cold Neutrons Guillaume Pignol <i>LPSC Grenoble</i>	Ultra Cold Neutrons Guillaume Pignol <i>LPSC Grenoble</i>	Practical on cosmic muon detection François Montanet		Data Handling Technologies Alberto Pace <i>CERN</i>
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	Coffee Break	Coffee Break	Coffee Break		Coffee Break
15:45	Exam : DT	Trigger and Data Acquisiton Software Enrico Pasqualucci <i>INFN</i>	Data Handling Technologies Alberto Pace <i>CERN</i>		Project Management Pierre Bonnal <i>CERN</i>
17:15		FPGA Hannes Sakulin <i>CERN</i>	Building Large Accelerators JUAS Seminar Philippe Lebrun		
			AFTER WORK AT ESI		



ESIPAP TIMETABLE 2019 WEEK 7

Mechanics & Medical Applications

Schedule 2019	Monday March 4th	Tuesday March 5th	Wednesday March 6th	Thursday March 7th	Friday March 8th	
09:00	Composite Materials for Particle Detectors Éric Anderssen <i>LBNL</i>	Medical Applications Ziad El-Bitar <i>IPHC Strasbourg</i>	Photon Counting Imaging Christian Morel	<i>Bus leaves at 7:00 from ESIPAP</i> (Lunch at LPSC) Lab Training Sessions in Grenoble (Night in Grenoble)	Medical Radioisotopes Ulli Koester <i>ILL Grenoble</i> (Lunch at LPSC) Lab Training Sessions in Grenoble <i>Return scheduled at 19:00</i>	
10:30	Coffee Break	Coffee Break	Coffee Break			
10:45	Composite Materials for Particle Detectors Éric Anderssen <i>LBNL</i>	Medical Applications Ziad El-Bitar <i>IPHC Strasbourg</i>	Exam : UCN			
12:15	WORKING LUNCH	BREAK	BREAK			
14:00	Medical Applications Ziad El-Bitar <i>IPHC Strasbourg</i>	Additive Printing Marc Krauth <i>IPHC Strasbourg</i>	Project Management Pierre Bonnal <i>CERN</i>			
15:30	Coffee Break	Coffee Break	Coffee Break			
15:45	Medical Applications Ziad El-Bitar <i>IPHC Strasbourg</i>	Additive Printing Projet Marc Krauth <i>IPHC Strasbourg</i>	Project Management Pierre Bonnal <i>CERN</i>			
17:15						
						AFTER WORK AT ESI

ESIPAP TIMETABLE 2019 WEEK 8 : Offline Computing

Schedule 2019	Monday March 11th	Tuesday March 12th	Wednesday March 13th	Thursday March 14th	Friday March 15th
09:00	Exam : MA	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> <p>END OF ESIPAP 2019</p>
10:30	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
10:45	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>	
12:15	WORKING LUNCH	BREAK	BREAK	CLOSING JUAS LUNCH OFFERED BY ESI	
14:00	Magnets for Particle Detectors Herman Ten Kate <i>CERN</i>	Python Programming Jérôme Odier <i>CNRS</i>	Grid Computing Catherine Biscarat <i>LPSC Grenoble</i>		
15:30	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
15:45	Magnets for Particle Detectors Herman Ten Kate <i>CERN</i>	Python Programming Jérôme Odier <i>CNRS</i>	Grid Computing Catherine Biscarat <i>LPSC Grenoble</i>	Exam : MPD	
17:15					