

JUAS - TIMETABLE 2020 - WEEK 1

Schedule 2020	Monday Jan 13	Tuesday Jan 14	Wednesday Jan 15	Thursday Jan 16	Friday Jan 17	
09:00						
		Relativity <i>H. Henke</i>	Electro-magnetism <i>H. Henke</i>	Intro. to Accelerator Design <i>Ph. Bryant</i>	Intro. to the Mini-Workshop <i>Ph. Bryant</i>	
10:00 10:15		Coffee Break	Coffee Break	Coffee Break	Coffee Break	
		Relativity <i>H. Henke</i>	Electro-magnetism <i>H. Henke</i>	Intro. to Accelerator Design <i>Ph. Bryant</i>	Intro. to the Mini-Workshop <i>Ph. Bryant</i>	
11:15		Relativity <i>H. Henke</i>	Electro-magnetism <i>H. Henke</i>	Intro. to Accelerator Design <i>Ph. Bryant</i>	Bus leaves at 11:15 from JUAS (Lunch at CERN, R1, offered by ESI)	
12:15		12:00 OFFICIAL OPENING (welcome & building visit)	Relativity <i>H. Henke</i>	Electro-magnetism <i>H. Henke</i>		Intro. to Accelerator Design <i>Ph. Bryant</i>
		13:00 WELCOME LUNCH	BREAK	BREAK		BREAK
14:00		14:00 Presentation of JUAS & Introduction of students <i>P. Lebrun</i>	Relativity <i>H. Henke</i>	Electro-magnetism <i>H. Henke</i>	Intro. to Accelerator Design <i>Ph. Bryant</i>	13:30 Visit of LHC Magnets Test Hall <i>M. Bajko</i>
15:00		History of particle accelerators Seminar <i>V. Vaccaro</i>	Particle optics N. Biancacci	Particle optics N. Biancacci	Intro. to Accelerator Design <i>Ph. Bryant</i>	15:00 Introduction to CERN & its Accelerator Network Seminar - R. Alemany
16:00 16:15		CHECK-IN AT THE RESIDENCE & SHOPPING FOR GROCERIES	Coffee Break	Coffee Break	Coffee Break	16:30 Visit of CERN Control Center <i>R. Alemany</i>
			Particle optics N. Biancacci	Particle optics N. Biancacci	Intro. to Accelerator Design <i>Ph. Bryant</i>	Bus leaves at 17:30 from CERN
17:15	Particle optics N. Biancacci					
18:15						
		AFTER WORK AT ESI				

JUAS - TIMETABLE 2020 - WEEK 2

Schedule 2020	Monday Jan 20	Tuesday Jan 21	Wednesday Jan 22	Thursday Jan 23	Friday Jan 24
09:00	Transverse Dynamics <i>A. Latina</i>	Transverse Dynamics <i>A. Latina</i>	Transverse Dynamics <i>A. Latina</i>	Cyclotrons <i>B. Jacquot</i>	Linacs <i>D. Alesini</i>
10:00	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
10:15	Transverse Dynamics <i>A. Latina</i>	Transverse Dynamics <i>A. Latina</i>	Transverse Dynamics <i>A. Latina</i>	Cyclotrons <i>B. Jacquot</i>	Linacs <i>D. Alesini</i>
11:15	Transverse Dynamics <i>A. Latina</i>	Transverse Dynamics <i>A. Latina</i>	Transverse Dynamics <i>A. Latina</i>	Cyclotrons <i>B. Jacquot</i>	Linacs <i>D. Alesini</i>
12:15	WORKING LUNCH	BREAK	BREAK	BREAK	BREAK
14:00	Intro. to MAD-X <i>G. Sterbini</i>	Transverse Dynamics <i>A. Latina</i>	Cyclotrons <i>B. Jacquot</i>	Linacs <i>D. Alesini</i>	Transverse Dynamics <i>A. Latina</i>
15:00	MADX <i>N. Fuster Martinez / H. Garcia Morales / A. Latina / G. Sterbini</i>	MADX <i>N. Fuster Martinez / H. Garcia Morales / A. Latina / G. Sterbini</i>	Cyclotrons <i>B. Jacquot</i>	Linacs <i>D. Alesini</i>	Transverse Dynamics <i>A. Latina</i>
16:00	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
16:15	MADX <i>N. Fuster Martinez / H. Garcia Morales / A. Latina / G. Sterbini</i>	MADX <i>N. Fuster Martinez / H. Garcia Morales / A. Latina / G. Sterbini</i>	Cyclotrons <i>B. Jacquot</i>	Linacs <i>D. Alesini</i>	MADX <i>N. Fuster Martinez / H. Garcia Morales / A. Latina / G. Sterbini</i>
17:15	Hybrid collisions in the LHC <i>J. Jowett</i>		European Projects for Collaborative Accelerator R&D Seminar <i>M. Vretenar</i>		MADX <i>N. Fuster Martinez / H. Garcia Morales / A. Latina / G. Sterbini</i>
18:15			AFTER WORK AT ESI		

JUAS - TIMETABLE 2020 - WEEK 3

Schedule 2020	Monday Jan 27	Tuesday Jan 28	Wednesday Jan 29	Thursday Jan 30	Friday Jan 31
09:00	Linear imperfections <i>H. Bartosik</i>	Synchrotron Radiation <i>R. Ischebeck</i>	Synchrotron Radiation <i>R. Ischebeck</i>	Synchrotron Radiation <i>R. Ischebeck</i>	Bus leaves at 07:00 from JUAS (2 hours of travel by bus) VISIT AT ESRF <i>J-L. Revol</i> (Lunch offered by ESRF)
10:00	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
10:15	Linear imperfections <i>H. Bartosik</i>	Synchrotron Radiation <i>R. Ischebeck</i>	Synchrotron Radiation <i>R. Ischebeck</i>	Synchrotron Radiation <i>R. Ischebeck</i>	
11:15	Linear imperfections <i>H. Bartosik</i>	Synchrotron Radiation <i>R. Ischebeck</i>	Synchrotron Radiation <i>R. Ischebeck</i>	Synchrotron Radiation <i>R. Ischebeck</i>	
12:15	BREAK	BREAK	BREAK	BREAK	
14:00	Synchrotron Radiation <i>R. Ischebeck</i>	Linear imperfections <i>H. Bartosik</i>	Non-linear effects <i>H. Bartosik</i>	Non-linear effects <i>H. Bartosik</i>	14:00 - 16:00 Injection / Extraction <i>T. Perron</i>
15:00	Synchrotron Radiation <i>R. Ischebeck</i>	Linear imperfections <i>H. Bartosik</i>	Non-linear effects <i>H. Bartosik</i>	Non-linear effects <i>H. Bartosik</i>	
16:00	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
16:15	Synchrotron Radiation <i>R. Ischebeck</i>	Linear imperfections <i>H. Bartosik</i>	Non-linear effects <i>H. Bartosik</i>	Non-linear effects <i>H. Bartosik</i>	Bus leaves at 17:00 from ESRF
17:15		Free-Electron Lasers Seminar (incl. ESIPAP students) <i>E. Prat</i>		LHC & Future High-Energy Circular Collider Seminar (incl. ESIPAP students) <i>O. Bruning</i>	
18:15				AFTER WORK AT ESI	

JUAS - TIMETABLE 2020 - WEEK 4

Schedule 2020	Monday Feb 3	Tuesday Feb 4	Wednesday Feb 5	Thursday Feb 6	Friday Feb 7
09:00	Longitudinal Dynamics <i>E. Métral/B. Salvant</i>	Longitudinal Dynamics <i>E. Métral/B. Salvant</i>	Space charge <i>M. Migliorati</i>	Mini-workshop Accelerator Design <i>Ph. Bryant</i>	Longitudinal Dynamics <i>E. Métral/B. Salvant</i>
10:00	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
10:15	Longitudinal Dynamics <i>E. Métral/B. Salvant</i>	Longitudinal Dynamics <i>E. Métral/B. Salvant</i>	Space charge <i>M. Migliorati</i>	Mini-workshop Accelerator Design <i>Ph. Bryant</i>	Longitudinal Dynamics <i>E. Métral/B. Salvant</i>
11:15	Longitudinal Dynamics <i>E. Métral/B. Salvant</i>	Longitudinal Dynamics <i>E. Métral/B. Salvant</i>	Space charge <i>M. Migliorati</i>	Mini-workshop Accelerator Design <i>Ph. Bryant</i>	Longitudinal Dynamics <i>E. Métral/B. Salvant</i>
12:15	WORKING LUNCH	BREAK	BREAK	BREAK	BREAK
14:00	Space charge <i>M. Migliorati</i>	Space charge <i>M. Migliorati</i>	Longitudinal Dynamics <i>E. Métral/B. Salvant</i>	Mini-workshop Accelerator Design <i>Ph. Bryant</i>	Presentation of Accelerator Design <i>Students</i>
15:00	Space charge <i>M. Migliorati</i>	Space charge <i>M. Migliorati</i>	Longitudinal Dynamics <i>E. Métral/B. Salvant</i>	Mini-workshop Accelerator Design <i>Ph. Bryant</i>	Presentation of Accelerator Design <i>Students</i>
16:00	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
16:15	Space charge <i>M. Migliorati</i>	Space charge <i>M. Migliorati</i>	Longitudinal Dynamics <i>E. Métral/B. Salvant</i>	Mini-workshop Accelerator Design <i>Ph. Bryant</i>	Presentation of Accelerator Design <i>Students</i>
17:15			Novel High Gradient Particle Accelerators Seminar <i>R. Assmann</i>	Future High-Energy Linear Colliders Seminar <i>(incl. ESIPAP students)</i> <i>L. Rinolfi</i>	
18:15			AFTER WORK AT ESI		

JUAS - TIMETABLE 2020 - WEEK 5

Schedule 2020	Monday Feb 10	Tuesday Feb 11	Wednesday Feb 12	Thursday Feb 13	Friday Feb 14
09:00	Free for preparation of examinations	EXAMINATION Synchrotron Radiation <i>Written session</i>	EXAMINATION Transverse beam dynamics <i>Written session</i>	EXAMINATION Longitudinal beam dynamics <i>Written session</i>	
10:30 11:00		Coffee Break	Coffee Break	Coffee Break	
		EXAMINATION Subject TBD <i>Written session</i>	EXAMINATION Subject TBD <i>Written session</i>	DISCUSSION SUMMARY OF JUAS LECTURES	
12:30		WORKING LUNCH	BREAK	BREAK	
14:00	Free for preparation of examinations				
15:00					
16:00 16:15					
17:15					

JUAS - TIMETABLE 2020 - WEEK 6

Schedule 2020	Monday Feb 17	Tuesday Feb 18	Wednesday Feb 19	Thursday Feb 20	Friday Feb 21	
09:00		Introduction to RF <i>A. Mostacci</i>	Vacuum systems <i>V. Baglin / R. Kersevan</i>	Vacuum systems <i>V. Baglin / R. Kersevan</i>	RF Engineering <i>F. Caspers / M. Wendt / M. Bozzolan</i>	
10:00 10:15		Coffee Break	Coffee Break	Coffee Break	RF Engineering <i>F. Caspers / M. Wendt / M. Bozzolan</i>	
11:15		Introduction to RF <i>A. Mostacci</i>	Vacuum systems <i>V. Baglin / R. Kersevan</i>	Vacuum systems <i>V. Baglin / R. Kersevan</i>	Coffee Break	
		Introduction to RF <i>A. Mostacci</i>	Vacuum systems <i>V. Baglin / R. Kersevan</i>	Vacuum systems <i>V. Baglin / R. Kersevan</i>	Bus leaves at 11:30 from JUAS (Lunch at CERN, R2, offered by ESI)	
		12:00 OFFICIAL OPENING (welcome & building visit)	BREAK	BREAK		BREAK
12:15		13:00 WELCOME LUNCH	BREAK	BREAK	BREAK	VISIT AT CERN AD / ELENA LINAC 4 Vacuum lab Bus leaves at 17:30 from CERN
14:00		14:00 Presentation of JUAS & Introduction of students <i>P. Lebrun</i>	RF Engineering <i>F. Caspers / M. Wendt / M. Bozzolan</i>	Vacuum systems <i>V. Baglin / R. Kersevan</i>	RF Engineering <i>F. Caspers / M. Wendt / M. Bozzolan</i>	
15:00 15:15		Coffee Break	RF Engineering <i>F. Caspers / M. Wendt / M. Bozzolan</i>	RF Engineering <i>F. Caspers / M. Wendt / M. Bozzolan</i>	RF Engineering <i>F. Caspers / M. Wendt / M. Bozzolan</i>	
16:00 16:15		Introduction to CERN practical days <i>Magnet, Superconductivity, RF, Vacuum, CLEAR</i>	Coffee Break	Coffee Break	Coffee Break	
17:15		RF Engineering <i>F. Caspers / M. Wendt / M. Bozzolan</i>	RF Engineering <i>F. Caspers / M. Wendt / M. Bozzolan</i>	RF Engineering <i>F. Caspers / M. Wendt / M. Bozzolan</i>	RF Engineering <i>F. Caspers / M. Wendt / M. Bozzolan</i>	
18:15	CHECK-IN AT THE RESIDENCE & SHOPPING FOR GROCERIES	Particle accelerators, instruments of discovery in physics - Seminar (incl. ESIPAP students) - <i>Ph. Lebrun</i>	Accelerator driven system Seminar (incl. ESIPAP students) <i>M. Baylac</i>			
			AFTER WORK AT ESI			

JUAS - TIMETABLE 2020 - WEEK 7

Schedule 2020	Monday Feb 24	Tuesday Feb 25	Wednesday Feb 26	Thursday Feb 27	Friday Feb 28
09:00	Beam instrumentation <i>P. Forck</i>	Beam instrumentation <i>P. Forck</i>	Beam instrumentation <i>P. Forck</i>	Bus leaves at 8:00 from JUAS (4 hours of travel by bus)	VISIT AT PSI (Lunch, dinner and coffee breaks offered by PSI, night at PSI offered by ESI) (Lunch and coffee breaks offered by PSI)
10:00	Coffee Break	Coffee Break	Coffee Break		
10:15	Beam instrumentation <i>P. Forck</i>	Beam instrumentation <i>P. Forck</i>	Beam instrumentation <i>P. Forck</i>		
10:30	Beam instrumentation <i>P. Forck</i>	Beam instrumentation <i>P. Forck</i>	Beam instrumentation <i>P. Forck</i>	VISIT AT PSI (Lunch, dinner and coffee breaks offered by PSI, night at PSI offered by ESI)	VISIT AT PSI (Lunch and coffee breaks offered by PSI)
11:15	Beam instrumentation <i>P. Forck</i>	Beam instrumentation <i>P. Forck</i>	Beam instrumentation <i>P. Forck</i>		
12:15	WORKING LUNCH	BREAK	BREAK		
14:00	Beam instrumentation <i>P. Forck</i>	Beam instrumentation <i>P. Forck</i>	Beam instrumentation <i>P. Forck</i>	Accelerator Controls <i>E. Zimoch</i>	Bus leaves at 14:30 from PSI (4 hours of travel by bus)
15:00	Superconducting RF Cavities <i>F. Caspers</i>	Superconducting RF Cavities <i>F. Caspers</i>	Superconducting RF Cavities <i>F. Caspers</i>		
16:00	Coffee Break	Coffee Break	Coffee Break		
16:15	Superconducting RF Cavities <i>F. Caspers</i>	Superconducting RF Cavities <i>F. Caspers</i>	Superconducting RF Cavities <i>F. Caspers</i>	Accel. for hadron therapy Seminar <i>M. Schippers</i>	Bus leaves at 14:30 from PSI (4 hours of travel by bus)
17:15			Building Large Accelerators Seminar <i>Ph. Lebrun</i>	Novel Accelerators on a chip Seminar <i>B. Hermann</i>	
18:15			AFTER WORK AT ESI		

JUAS - TIMETABLE 2020 - WEEK 8

Schedule 2020	Monday Mar 2	Tuesday Mar 3	Wednesday Mar 4	Thursday Mar 5	Friday Mar 6
09:00	9:00 - 10:30 Introduction to Magnets <i>G. De Rijk</i>	Superconducting magnets <i>P. Ferracin</i>	Mini-workshop Normal conducting Magnets <i>J. Bauche & T. Zickler</i>	Bus leaves at 8:00 from JUAS (Lunch at CERN, offered by ESI) PRACTICAL DAYS AT CERN RF coordinators: <i>F. Caspers</i> <i>M. Wendt</i> <i>M. Bozzolan</i> VACUUM coordinators: <i>V. Baglin</i> <i>R. Kersevan</i> MAGNET coordinators: <i>J. Bauche</i> <i>L. Fiscarelli</i> SUPERCONDUCTIVITY coordinator: <i>J. Fleiter</i> CLEAR coordinators: <i>R. Corsini</i> <i>W. Farabolini</i> Bus leaves at 17:30 from CERN	Bus leaves at 8:00 from JUAS (Lunch at CERN, offered by ESI) PRACTICAL DAYS AT CERN RF coordinators: <i>F. Caspers</i> <i>M. Wendt</i> <i>M. Bozzolan</i> VACUUM coordinators: <i>V. Baglin</i> <i>R. Kersevan</i> MAGNET coordinators: <i>J. Bauche</i> <i>L. Fiscarelli</i> SUPERCONDUCTIVITY coordinator: <i>J. Fleiter</i> CLEAR coordinators: <i>R. Corsini</i> <i>W. Farabolini</i> Bus leaves at 17:30 from CERN
10:00		Coffee Break	Coffee Break		
10:15	Coffee Break	Superconducting magnets <i>P. Ferracin</i>	Mini-workshop Normal conducting Magnets <i>J. Bauche & T. Zickler</i>		
11:15	10:45 - 12:15 Normal Conducting magnets <i>T. Zickler</i>	Superconducting magnets <i>P. Ferracin</i>	Mini-workshop Normal conducting Magnets <i>J. Bauche & T. Zickler</i>		
12:15	WORKING LUNCH	BREAK	BREAK		
14:00	Normal Conducting magnets <i>T. Zickler</i>	Cryogenics for Superconducting Devices <i>Ph. Lebrun</i>	Mini-workshop Superconducting Magnets <i>P. Ferracin & D. Schoerling</i>		
15:00	Normal Conducting magnets <i>T. Zickler</i>	Normal Conducting magnets <i>T. Zickler</i>	Mini-workshop Superconducting Magnets <i>P. Ferracin & D. Schoerling</i>		
16:00	Coffee Break	Coffee Break	Coffee Break		
16:15	Superconducting magnets <i>P. Ferracin</i>	Normal Conducting magnets <i>T. Zickler</i>	Mini-workshop Superconducting Magnets <i>P. Ferracin & D. Schoerling</i>		
17:15	Superconducting magnets <i>P. Ferracin</i>	Normal Conducting magnets <i>T. Zickler</i>	AFTER WORK AT ESI		
18:15					

JUAS - TIMETABLE 2020 - WEEK 9

Schedule 2020	Monday March 9	Tuesday March 10	Wednesday March 11	Thursday March 12	Friday March 13
09:00	Particle Sources <i>T. Thuillier</i>	Low Energy Electron Accelerators <i>W. Mondelaers</i>	Survey and Alignment of Accelerators <i>H. Mainaud-Durand</i>	Life-cycle and operability of particle accelerators <i>S. Meyroneinc</i>	High Power Proton Linacs <i>S. Bousson</i>
10:00	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
10:15	Particle Sources <i>T. Thuillier</i>	Low Energy Electron Accelerators <i>W. Mondelaers</i>	Survey and Alignment of Accelerators <i>H. Mainaud-Durand</i>	Life-cycle and operability of particle accelerators <i>S. Meyroneinc</i>	High Power Proton Linacs <i>S. Bousson</i>
11:15	Particle Sources <i>T. Thuillier</i>	Low Energy Electron Accelerators <i>W. Mondelaers</i>	Survey and Alignment of Accelerators <i>H. Mainaud-Durand</i>	Life-cycle and operability of particle accelerators <i>S. Meyroneinc</i>	High Power Proton Linacs <i>S. Bousson</i>
12:15	WORKING LUNCH	BREAK	SANDWICH SNACK OFFERED BY ESI	SANDWICH SNACK OFFERED BY ESI	BREAK
14:00	Particle Sources <i>T. Thuillier</i>	Acc. for medical & industrial applications <i>W. Kleeven</i>	VISIT & EXPERIMENTAL WORK AT BERGOZ INSTRUMENTATION <i>E. Touzain</i>	<i>Bus leaves at 13:15 from JUAS</i> Radiation Oncology : Biology, Physics & Clinical Applications Seminar <i>P. Tsoutsou</i>	Radiation safety <i>X. Queralt</i>
15:00	Particle Sources <i>T. Thuillier</i>	Acc. for medical & industrial applications <i>W. Kleeven</i>		Therapeutic Applications at Geneva Hospital	Radiation safety <i>X. Queralt</i>
16:00	Coffee Break	Coffee Break			Coffee Break
16:15	Energy recovery linacs Seminar <i>M. Arnold</i>	Acc. for medical & industrial applications <i>W. Kleeven</i>	<i>Bus leaves at 17:30 from BERGOZ</i>	<i>Bus leaves at 17:30 from HUG</i>	Radiation safety <i>X. Queralt</i>
17:15					AFTER WORK AT ESI

JUAS - TIMETABLE 2020 - WEEK 10

Schedule 2020	Monday March 16	Tuesday March 17	Wednesday March 18	Thursday March 19	Friday March 20
09:00	Presentation of reports on practical work	EXAMINATION Beam Instrumentation <i>Written session</i>	EXAMINATION RF <i>Written session</i>	EXAMINATION Magnets <i>Written session</i>	
10:30 11:00		Coffee Break	Coffee Break	Coffee Break	
11:00	Presentation of reports on practical work	EXAMINATION Subject TBD <i>Written session</i>	EXAMINATION Subject TBD <i>Written session</i>	DISCUSSION SUMMARY OF JUAS LECTURES	
12:30		WORKING LUNCH	BREAK	BREAK	
14:00	Free for preparation of examinations				
15:00					
16:00 16:15					
17:15					