

# Schedule by Category (I)

Category Section	Sep. 18 (Wed.)		Sep. 19 (Thu.)		Sep. 20 (Fri.)		Sep. 21 (Sat.)	
	AM	PM	AM	PM	AM	PM	AM	PM
<b>SP Special Events</b>								
SP1 The 80th JSAP Autumn Meeting Memorial Symposium " Inventive sciences from North latitude 44 degrees - Hayabusa spaceship, Mysterious ice surfaces, Amoeba science and Novel photocatalyst - "						E101 13:30 ~ 16:55		
<b>NT Symposium (non-technical)</b>								
NT1 Applied physics and Sensibility						E308 13:30 ~ 17:20		
<b>T Symposium (technical)</b>								
T1 System-oriented Nature Energy Utilization Technology				E216 13:30 ~ 18:15				
T2 The manpower training of Science and Technology, education activities and its revitalization -Hokkaido area-								E311 13:00 ~ 15:50
T3 Forefront of Quantum Beam Application - Current Status and Future Prospects of Medical and Industrial Use -				N304 13:45 ~ 16:30				
T4 Innovation and development of new business created by Photonics II - Biomedical and Photoic Startups launched from universities -				E208 13:30 ~ 16:55				
T5 New developments in optical quantum technologies				E301 14:00 ~ 16:45				
T6 Power Electronics and Technology of Thin Films - Surfaces. For realization of low energy consumption society				B01 13:30 ~ 16:45				
T7 New development of surface and interface evaluation methods for thin films			B31 09:00 ~ 11:45	B31 13:15 ~ 17:15				
T8 Total bio-mimetic material science for harmonized functions among sensing, processing and action						B01 13:30 ~ 17:50		
T9 Applications of new ferroelectric materials for the future electric devices						C309 13:45 ~ 18:00		
T10 Hydrogen in oxides and its role					C212 09:55 ~ 12:15	C212 14:00 ~ 18:00		
T11 Plasma controlled precursors pioneering life-science and material-science				B32 13:30 ~ 17:15				
T12 Development of novel functional materials based on mixed-anion compounds				C310 13:30 ~ 16:35				
T13 Gravity control science developed by experiments in magnetic field and space				E201 13:30 ~ 17:30				
T14 New spintronic materials and their physical properties				N302 13:30 ~ 17:45				
T15 Another way of research on organic photovoltaic cells: Indoor use and its standardization, semi-transparent						E307 13:30 ~ 17:00		
T16 Symbiosis of solid- and bio-surface: Toward a seamless communication between cyberspace and real life world					B32 10:00 ~ 11:45	B32 13:30 ~ 17:15		
T17 Advanced optical measurements in the field of organic electronics					C212 13:30 ~ 16:45			
T18 Potentials and challenges of photovoltaics for realizing carbon-free society -beyond power; mobility, building and more-	E301 10:30 ~ 12:15	E301 13:45 ~ 17:30						
T19 Interfacial Nano Electrochemistry - Diversification of Semiconductor Wet Process				B11 13:30 ~ 17:00				
T20 Advanced ion microscopy? Application for future nano scale materials and devices				E302 13:30 ~ 17:30				
T21 Latest trend on atomic layer processes						N304 13:30 ~ 17:45		
T22 Etching Technology for Nitride Semiconductors: recent progress in high-controllable and low-damaging process						E301 13:30 ~ 17:35		
T23 Materials Science and Advanced Electronics Created by Singularity of Nitride Semiconductors -Development of New Functionality and Expansion to Electronic and Optical Devices-		E101 13:30 ~ 17:30						
T24 The present and future of crystalline Si solar cells				B12 13:15 ~ 18:30				
T25 Latest developments and future prospects in nano-carbon and atomic-layer materials						E201 13:30 ~ 18:15		
T26 New material science and its practical application created by informatics	B01 10:00 ~ 12:25	B01 13:45 ~ 18:05						
T27 Mathematics and physics for understanding nature, life and their computation capabilities							F211 09:00 ~ 12:50	
<b>CS Code-sharing Session</b>								
CS1 Code-sharing Session 3.3 & 4.4	E215 10:30 ~ 11:45	E215 13:15 ~ 16:15	E215 10:15 ~ 11:45					
CS2 Code-sharing Session 3.5 & 3.14						E203 13:45 ~ 15:15		
CS3 Code-sharing Session of 3.10 & 3.11 & 9.2 & 11.5 & 13.6			E208 09:00 ~ 12:15		N304 09:00 ~ 11:45			
CS4 Code-sharing Session of 3.11 & 3.12							E208 09:00 ~ 12:15	
CS5 Code-sharing Session of 3.11 & 3.13					E207 09:00 ~ 12:00			
CS6 Code-sharing Session of 6.5 & 7.6						E319 13:45 ~ 16:30		
CS7 Code-sharing Session of 7.2 & 7.4 & 9.5	E318 09:00 ~ 12:45		E318 09:00 ~ 12:15		E318 09:00 ~ 12:00	E318 13:00 ~ 16:45		
CS8 Code-sharing Session of 10.1, 10.2, 10.3 & 10.4					E216 10:45 ~ 12:30	E216 13:30 ~ 15:15		
<b>31 Focused Session "AI Electronics"</b>								
31.1 Focused Session "AI Electronics"				PB6 13:30 ~ 15:30	F211 09:30 ~ 12:15	F211 13:45 ~ 17:45		
				F211 15:45 ~ 18:15				

# Schedule by Category (II)

Category Section	Sep. 18 (Wed.)		Sep. 19 (Thu.)		Sep. 20 (Fri.)		Sep. 21 (Sat.)	
	AM	PM	AM	PM	AM	PM	AM	PM
<b>1 Interdisciplinary Physics and Related Areas of Science and Technology</b>								
1.1 Interdisciplinary and General Physics	PA1 09:30 ~ 11:30	C206 13:15 ~ 15:15						
1.2 Education							PA1 09:30 ~ 11:30	
1.3 Novel technologies and interdisciplinary engineering	PA2 09:30 ~ 11:30		C206 09:30 ~ 11:45					
1.4 Energy conversion, storage, resources and environment		E313 13:30 ~ 15:45	PA1 09:30 ~ 11:30					
1.5 Instrumentation, measurement and Metrology	PA3 09:30 ~ 11:30					E313 13:15 ~ 17:45		
1.6 Ultrasonics	C206 09:00 ~ 12:15	PA3 16:00 ~ 18:00						
<b>2 Ionizing Radiation</b>								
2.1 Radiation physics and Detector fundamentals						PB4 16:00 ~ 18:00	C213 09:00 ~ 11:45	C213 13:00 ~ 14:45
2.2 Detection systems		C213 13:15 ~ 17:30	C213 10:00 ~ 11:45	N304 13:30 ~ 13:45				
2.3 Application, radiation generators, new technology					E305 09:15 ~ 12:00	E305 13:45 ~ 15:30		
2.4 Accelerator Mass Spectrometry, Accelerator Beam Analysis		E312 13:30 ~ 15:30				PB4 16:00 ~ 18:00	E303 09:00 ~ 12:30	
<b>3 Optics and Photonics</b>								
3.1 Basic optics and frontier of optics	E204 09:00 ~ 12:00	E204 13:45 ~ 18:00	E204 09:00 ~ 12:00	PA1 13:30 ~ 15:30				
3.2 Equipment optics and materials	E205 09:00 ~ 11:30	PA1 13:30 ~ 15:30	E207 09:00 ~ 11:15					
3.3 Information photonics and image engineering				E319 13:15 ~ 19:00	PA1 09:30 ~ 11:30			
CS1 Code-sharing Session 3.3 & 4.4	E215 10:30 ~ 11:45	E215 13:15 ~ 16:15	E215 10:15 ~ 11:45					
3.4 Biomedical optics					E313 09:00 ~ 11:45	PA1 13:30 ~ 15:30	E206 09:00 ~ 11:45	E206 13:15 ~ 16:00
3.5 Laser system and materials					PA2 09:30 ~ 11:30	E203 15:30 ~ 19:00	E203 09:00 ~ 11:30	E203 13:00 ~ 14:15
CS2 Code-sharing Session 3.5 & 3.14						E203 13:45 ~ 15:15		
3.6 Ultrashort-pulse and high-intensity lasers	PA4 09:30 ~ 11:30	E205 13:15 ~ 18:00	E205 09:00 ~ 12:15	E205 13:45 ~ 19:00				
3.7 Laser processing	N304 09:30 ~ 11:45	N304 13:15 ~ 17:30	N304 09:00 ~ 11:45	PA2 13:30 ~ 15:30				
				E303 15:45 ~ 18:00				
3.8 Optical measurement, instrumentation, and sensor					E205 09:00 ~ 12:15	E205 13:45 ~ 17:00	E205 09:00 ~ 12:15	
						PA4 16:00 ~ 18:00		
3.9 Terahertz technologies		E206 14:00 ~ 17:30	PA2 09:30 ~ 11:30		E206 09:00 ~ 12:15	E206 13:45 ~ 16:45		
3.10 Optical quantum physics and technologies						PA5 16:00 ~ 18:00	E207 09:00 ~ 11:45	E207 13:15 ~ 16:00
CS3 Code-sharing Session of 3.10 & 3.11 & 9.2 & 11.5 & 13.6			E208 09:00 ~ 12:15		N304 09:00 ~ 11:45			
3.11 Photonic structures and phenomena				E207 13:15 ~ 15:45		E207 13:45 ~ 18:00		E205 13:15 ~ 16:00
				PA5 16:00 ~ 18:00				
CS3 Code-sharing Session of 3.10 & 3.11 & 9.2 & 11.5 & 13.6			E208 09:00 ~ 12:15		N304 09:00 ~ 11:45			
CS4 Code-sharing Session of 3.11 & 3.12							E208 09:00 ~ 12:15	
CS5 Code-sharing Session of 3.11 & 3.13					E207 09:00 ~ 12:00			
3.12 Nanoscale optical science and near-field optics				E314 13:00 ~ 16:00	E208 09:00 ~ 12:00	E208 13:15 ~ 19:00		E208 13:30 ~ 16:00
				PA6 16:00 ~ 18:00				
CS4 Code-sharing Session of 3.11 & 3.12							E208 09:00 ~ 12:15	
3.13 Semiconductor optical devices			PA3 09:30 ~ 11:30	E204 13:45 ~ 17:15	E204 09:00 ~ 11:15	E204 13:45 ~ 17:00		
CS5 Code-sharing Session of 3.11 & 3.13					E207 09:00 ~ 12:00			
3.14 Optical control devices and optical fibers						PA6 16:00 ~ 18:00	E204 09:00 ~ 11:15	E204 13:45 ~ 15:15
CS2 Code-sharing Session 3.5 & 3.14						E203 13:45 ~ 15:15		
3.15 Silicon photonics	PA5 09:30 ~ 11:30		E206 09:00 ~ 11:45	E206 13:15 ~ 18:45				
<b>4 JSAP-OSA Joint Symposia 2019</b>								
4.1 Plasmonics and Nanophotonics	E208 09:00 ~ 11:30	E208 13:15 ~ 18:00			PA3 09:30 ~ 11:30			
4.2 Photonics Devices, Photonic Integrated Circuit and Silicon Photonics						E215 14:30 ~ 16:15		
					E215 10:00 ~ 11:45			
4.3 Ultrafast Optics and Laser Processing					E214 09:00 ~ 11:45	E214 13:15 ~ 18:30		
					PA3 09:30 ~ 11:30			
4.4 Information Photonics *Code-Sharing Session with 3.3 & Information photonics and image engineering	E215 10:30 ~ 11:45	E215 13:15 ~ 16:15	E215 10:15 ~ 11:45					
4.5 Terahertz Photonics				E215 12:45 ~ 18:30	PA3 09:30 ~ 11:30			
4.6 Quantum Optics and Nonlinear Optics					PA3 09:30 ~ 11:30		E214 09:00 ~ 11:45	E214 13:15 ~ 14:45

# Schedule by Category (III)

Category Section	Sep. 18 (Wed.)		Sep. 19 (Thu.)		Sep. 20 (Fri.)		Sep. 21 (Sat.)	
	AM	PM	AM	PM	AM	PM	AM	PM
<b>6 Thin Films and Surfaces</b>								
6.1 Ferroelectric thin films				PA3 13:30 ~ 15:30	C309 09:00 ~ 12:30		C309 09:00 ~ 12:30	C309 13:45 ~ 16:00
6.2 Carbon-based thin films		PA4 16:00 ~ 18:00	E312 09:30 ~ 12:00	E312 13:30 ~ 17:15	E312 09:15 ~ 12:00	E312 13:30 ~ 17:30		
6.3 Oxide electronics	E311 09:00 ~ 11:30	E311 13:15 ~ 18:00	E311 09:30 ~ 11:45	E311 13:15 ~ 17:00			PA2 09:30 ~ 11:30	N302 13:15 ~ 16:00
6.4 Thin films and New materials		PA5 16:00 ~ 18:00			C310 09:00 ~ 12:15	C310 13:45 ~ 18:00	C310 09:00 ~ 12:15	C310 13:45 ~ 14:45
6.5 Surface Physics, Vacuum					E319 10:00 ~ 11:45	PB1 13:30 ~ 15:30	E319 09:00 ~ 10:15	
CS6 Code-sharing Session of 6.5 & 7.6						E319 13:45 ~ 16:30		
6.6 Probe Microscopy	C310 09:30 ~ 12:15	C310 13:30 ~ 17:15	C310 09:00 ~ 12:15	PA4 13:30 ~ 15:30				
<b>7 Beam Technology and Nanofabrication</b>								
7.1 X-ray technologies				E318 13:30 ~ 16:30		PB2 13:30 ~ 15:30		
7.2 Applications and technologies of electron beams						PB2 13:30 ~ 15:30		
CS7 Code-sharing Session of 7.2 & 7.4 & 9.5	E318 09:00 ~ 12:45		E318 09:00 ~ 12:15		E318 09:00 ~ 12:00	E318 13:00 ~ 16:45		
7.3 Micro/Nano patterning and fabrication					E307 10:00 ~ 11:45	PB2 13:30 ~ 15:30		
7.4 Buried interface sciences with quantum beam						PB2 13:30 ~ 15:30		
CS7 Code-sharing Session of 7.2 & 7.4 & 9.5	E318 09:00 ~ 12:45		E318 09:00 ~ 12:15		E318 09:00 ~ 12:00	E318 13:00 ~ 16:45		
7.5 Ion beams					E203 09:00 ~ 12:15	PB2 13:30 ~ 15:30		
7.6 Atomic/molecular beams and beam-related new technologies						E319 13:45 ~ 16:30		
*Code-sharing Session of 6.5 Surface Physics, Vacuum								
<b>8 Plasma Electronics</b>								
8.1 Plasma production and diagnostics	PA6 09:30 ~ 11:30				B11 09:00 ~ 11:45	B11 13:15 ~ 17:15		
8.2 Plasma deposition of thin film, plasma etching and surface treatment	C309 09:00 ~ 12:00	C309 13:45 ~ 17:15			PA4 09:30 ~ 11:30			
8.3 Plasma nanotechnology	F211 09:45 ~ 12:00				PA5 09:30 ~ 11:30			
8.4 Plasma life sciences					PA6 09:30 ~ 11:30	E306 13:15 ~ 17:00		
8.5 Plasma phenomena, emerging area of plasmas and their new applications	PA7 09:30 ~ 11:30				E306 09:00 ~ 12:15			
8.6 Plasma Electronics English Session		F211 13:45 ~ 16:00			PA7 09:30 ~ 11:30			
8.7 Plasma Electronics Invited Talk			B32 10:30 ~ 11:00					
8.8 Plasma Electronics Award Speech			B32 09:30 ~ 10:30					
<b>9 Applied Materials Science</b>								
9.1 Dielectrics, ferroelectrics	E317 09:00 ~ 11:45	E317 13:15 ~ 16:30	PB1 09:30 ~ 11:30					
9.2 Nanoparticles, Nanowires and Nanosheets	PB1 09:30 ~ 11:30		E317 09:00 ~ 11:45	E317 13:15 ~ 18:45	E317 09:00 ~ 11:30			
CS3 Code-sharing Session of 3.10 & 3.11 & 9.2 & 11.5 & 13.6			E208 09:00 ~ 12:15		N304 09:00 ~ 11:45			
9.3 Nanoelectronics	PB2 09:30 ~ 11:30					E317 13:30 ~ 16:00		
9.4 Thermoelectric conversion			E307 09:00 ~ 11:45	E307 13:15 ~ 17:30	PB1 09:30 ~ 11:30			
9.5 New functional materials and new phenomena		PA6 16:00 ~ 18:00						
CS7 Code-sharing Session of 7.2 & 7.4 & 9.5	E318 09:00 ~ 12:45		E318 09:00 ~ 12:15		E318 09:00 ~ 12:00	E318 13:00 ~ 16:45		
<b>10 Spintronics and Magnetics</b>								
CS8 Code-sharing Session of 10.1, 10.2, 10.3 & 10.4					E216 10:45 ~ 12:30	E216 13:30 ~ 15:15		
10.1 Emerging materials in spintronics and magnetics (including fabrication and characterization methodologies)		PB1 13:30 ~ 15:30	E216 09:00 ~ 12:15		E216 09:00 ~ 10:30			
		E216 16:15 ~ 18:00						
10.2 Fundamental and exploratory device technologies for spin		PB1 13:30 ~ 15:30				E216 15:30 ~ 19:00	E216 09:00 ~ 10:00	
10.3 Spin devices, magnetic memories and storages							E216 10:15 ~ 12:15	E216 13:15 ~ 14:45
10.4 Semiconductor spintronics, superconductor, multiferroics	E216 09:00 ~ 12:15	E216 13:15 ~ 16:00						
10.5 Application of magnetic field		PB1 13:30 ~ 15:30	E201 09:00 ~ 11:45					
<b>11 Superconductivity</b>								
11.1 Fundamental properties					C213 13:30 ~ 18:30	C213 09:30 ~ 11:00		
11.2 Thin and thick superconducting films, coated conductors and film crystal growth						C207 13:15 ~ 17:45		
11.3 Critical Current, Superconducting Power Applications			PB2 09:30 ~ 11:30		C206 13:15 ~ 16:00			
11.4 Analog applications and their related technologies					C207 13:15 ~ 18:00	C207 09:00 ~ 10:45		
11.5 Junction and circuit fabrication process, digital applications							C213 13:15 ~ 17:00	
CS3 Code-sharing Session of 3.10 & 3.11 & 9.2 & 11.5 & 13.6			E208 09:00 ~ 12:15		N304 09:00 ~ 11:45			

# Schedule by Category (IV)

Category Section	Sep. 18 (Wed.)		Sep. 19 (Thu.)		Sep. 20 (Fri.)		Sep. 21 (Sat.)	
	AM	PM	AM	PM	AM	PM	AM	PM
<b>12 Organic Molecules and Bioelectronics</b>								
12.1 Fabrications and Structure Controls				PB7 16:00 ~ 18:00	E202 09:00 ~ 11:45	E202 13:45 ~ 18:45		
12.2 Characterization and Materials Physics	E302 09:00 ~ 12:15	E302 13:45 ~ 18:15	E302 09:00 ~ 11:45		E308 09:00 ~ 11:45	PA2 13:30 ~ 15:30		
12.3 Functional Materials and Novel Devices	B12 09:00 ~ 11:45	B12 13:15 ~ 18:00	B12 09:00 ~ 12:00		E101 09:00 ~ 11:45	PA3 13:30 ~ 15:30		
12.4 Organic light-emitting devices and organic transistors		E310 13:45 ~ 18:15	C212 09:00 ~ 11:45	E306 13:15 ~ 15:00 PB8 16:00 ~ 18:00			B32 09:00 ~ 11:30	B32 13:00 ~ 16:30
12.5 Organic solar cells	E101 09:00 ~ 12:15		E101 09:00 ~ 12:15	E101 13:45 ~ 18:00	PB2 09:30 ~ 11:30		E101 09:00 ~ 12:15	E101 13:45 ~ 15:15
12.6 Nanobiotechnology	E203 09:00 ~ 12:15	E203 13:45 ~ 18:00	E203 09:00 ~ 12:15	E203 13:45 ~ 16:00 PB9 16:00 ~ 18:00				
12.7 Biomedical Engineering and Biochips	E202 09:00 ~ 12:00	E202 13:00 ~ 18:00	E202 09:00 ~ 12:15	E202 13:30 ~ 15:30 E202 16:00 ~ 18:45				PB1
<b>13 Semiconductors</b>								
13.1 Fundamental properties, surface and interface, and simulations of Si related materials	E303 09:00 ~ 12:15	E303 13:45 ~ 16:45			PB3 09:30 ~ 11:30			
13.2 Exploratory Materials, Physical Properties, Devices					E303 10:30 ~ 11:45	E303 13:45 ~ 17:45	PA3 09:30 ~ 11:30	
13.3 Insulator technology		PB2 16:00 ~ 18:00	E305 09:00 ~ 12:15	E305 13:45 ~ 17:45				
13.4 Si processing /Si based thin film / MEMS / Equipment technology	E304 09:30 ~ 11:45	E304 13:45 ~ 16:15	E304 09:00 ~ 12:00	E304 13:45 ~ 17:15		PA7 16:00 ~ 18:00		
13.5 Semiconductor devices/ Interconnect/ Integration technologies	B11 09:00 ~ 12:00	B11 13:15 ~ 17:00	B11 09:00 ~ 11:30	PB2 13:30 ~ 15:30				
13.6 Nanostructures, quantum phenomena, and nano quantum devices				C309 13:45 ~ 18:30		PB3 13:30 ~ 15:30		
CS3 Code-sharing Session of 3.10 & 3.11 & 9.2 & 11.5 & 13.6			E208 09:00 ~ 12:15		N304 09:00 ~ 11:45			
13.7 Compound and power electron devices and process technology		N302 13:00 ~ 18:00	E301 09:00 ~ 12:00	PB3 13:30 ~ 15:30	E301 09:00 ~ 12:15		E301 09:00 ~ 12:30	E301 13:45 ~ 15:30
13.8 Optical properties and light-emitting devices			PB3 09:30 ~ 11:30		E302 09:00 ~ 12:15	E302 13:45 ~ 18:15	E302 09:00 ~ 12:15	
13.9 Compound solar cells			E315 09:15 ~ 12:15	E315 13:45 ~ 15:30 PB10 16:00 ~ 18:00	B12 09:30 ~ 11:45	B12 13:15 ~ 16:15		
<b>15 Crystal Engineering</b>								
15.1 Bulk crystal growth	E207 09:00 ~ 11:45	E207 13:15 ~ 17:15	PB4 09:30 ~ 11:30					
15.2 II-VI and related compounds	E206 09:00 ~ 10:30	PB3 16:00 ~ 18:00						
15.3 III-V-group epitaxial crystals, Fundamentals of epitaxy	B31 09:00 ~ 11:30	B31 13:15 ~ 18:00	PB5 09:30 ~ 11:30					
15.4 III-V-group nitride crystals	E310 09:00 ~ 11:45 PB3 09:30 ~ 11:30		E310 09:00 ~ 11:45	E310 13:15 ~ 19:00	E310 09:00 ~ 11:45	E310 13:15 ~ 19:00	E310 09:00 ~ 11:45	E310 12:45 ~ 16:00
15.5 Group IV crystals and alloys		PA2 13:30 ~ 15:30	E313 09:30 ~ 12:00	E313 13:30 ~ 15:45				
15.6 Group IV Compound Semiconductors (SiC)				PB4 13:30 ~ 15:30	E311 09:00 ~ 12:00	E311 13:30 ~ 18:15	E311 09:00 ~ 10:45	
15.7 Crystal characterization, impurities and crystal defects	C212 09:00 ~ 12:00	C212 13:30 ~ 15:00 PB4 16:00 ~ 18:00						
<b>16 Amorphous and Microcrystalline Materials</b>								
16.1 Fundamental properties, evaluation, process and devices in disordered materials				PA7 16:00 ~ 18:00	E304 09:00 ~ 11:45	E304 13:45 ~ 17:15		
16.2 Energy Harvesting			E303 09:00 ~ 10:30					
16.3 Bulk, thin-film and other silicon-based solar cells			PA4 09:30 ~ 11:30		E314 09:15 ~ 11:30	E314 13:30 ~ 17:15	B12 09:15 ~ 11:30	B12 13:30 ~ 14:45
<b>17 Nanocarbon Technology</b>								
17.1 Carbon nanotubes & other nanocarbon materials	E307 09:45 ~ 11:45	E307 13:15 ~ 17:15						
17.2 Graphene	E308 09:00 ~ 11:30	E308 13:15 ~ 18:00		E308 16:45 ~ 17:45			PB1 09:30 ~ 11:30	
17.3 Layered materials			E308 09:30 ~ 11:45	E308 13:15 ~ 16:45	E201 09:00 ~ 11:45			E201 12:30 ~ 14:30
<b>21 Joint Session K "Wide bandgap oxide semiconductor materials and devices"</b>								
21.1 Joint Session K "Wide bandgap oxide semiconductor materials and devices"		PB5 16:00 ~ 18:00			B31 09:00 ~ 12:15	B31 13:45 ~ 18:30	B31 09:00 ~ 11:15	B31 12:45 ~ 16:30
<b>22 Joint Session M "Phonon Engineering"</b>								
22.1 Joint Session M "Phonon Engineering"	E214 10:00 ~ 11:45	E214 13:15 ~ 17:00	E214 10:00 ~ 11:15	E214 13:15 ~ 16:45	PB4 09:30 ~ 11:30			
<b>23 Joint Session N "Informatics"</b>								
23.1 Joint Session N "Informatics"			B01 09:00 ~ 11:45	PB5 13:30 ~ 15:30	B01 09:00 ~ 11:45		B01 09:00 ~ 11:45	