

Schedule by Category (I)

Category Section	Sep. 18 (Tue.)		Sep. 19 (Wed.)		Sep. 20 (Thu.)		Sep. 21 (Fri.)	
	AM	PM	AM	PM	AM	PM	AM	PM
SP Special Symposium								
SP1 LiDAR for Autonomous Driving		141 13:00 ~ 17:50						
SP2 Invitation to Informatics	CE 10:00 ~ 12:00	CE 13:00 ~ 18:30						
SP3 Epitaxial Growth and Device Science of GaN						CE 13:30 ~ 17:45		
SP4 Innovative Plasma Science and Technology toward Future Society - From Semiconductor to Medicine, Agriculture and Space Exploration -		331 13:30 ~ 17:30						
S Symposium								
S1 The manpower training of Science and Technology, education activities and its revitalization - Tokai area -				135 14:00 ~ 17:30				
S2 Advances and future prospects of accelerator mass spectrometry			223 09:00 ~ 12:15					
S3 Future research and human resources development using research reactors				223 13:45 ~ 16:55				
S4 Ubiquitous Power Lasers		233 13:30 ~ 18:30						
S5 Frontier of Photonic Artificial Intelligence				232 13:30 ~ 17:20				
S6 Quantum computer and Quantum simulator II						145 13:30 ~ 16:35		
S7 Innovation and development of new business created by Photonics						232 13:30 ~ 16:45		
S8 Solid state ionics devices for super smart society. - From fundamentals to applications in ICT, AI and energy devices -	432 09:30 ~ 12:00	432 13:30 ~ 17:30						
S9 The role of functional oxides in high-frequency devices for IoT								CE 13:30 ~ 17:25
S10 Recent Progresses and Developments of Si Integrated Circuit Technologies with 3D Integrations				432 13:45 ~ 17:30				
S11 Frontier of Cryo-Electron Microscopy						225B 13:30 ~ 16:20		
S12 Plasma Informatics - Development of Plasma Science by Taking Advantage of Big Data and Analytics				141 13:30 ~ 17:15				
S13 Recent progress of spintronic materials - 2 dimensional systems-				331 13:45 ~ 17:00				
S14 Technological innovation in nanobiology and nanomedicine: from materials, devices to measurement		144 13:00 ~ 18:20						
S15 Frontier of organic semiconductor crystals: Toward the Molecular Science of Quantum Liberated Electrons					231C 10:00 ~ 12:00	231C 13:30 ~ 17:30		
S16 Recent Progress of Organic Electronics in Japan and Korea II : from viewpoints of basic science and application								141 13:30 ~ 17:45
S17 Applied physics of metal halide perovskite materials		145 13:30 ~ 17:25						
S18 Current status and future prospect of chalcogenide-based thin film solar cells technology		133 13:30 ~ 17:45						
S19 Create a path of future semiconductor devices by new materials and processes				233 13:30 ~ 17:50				
S20 Advanced ion microscopy for future nanoelectronics materials and devices						233 13:30 ~ 18:00		
S21 JSAP-KPS Joint Symposium: Wide Bandgap Semiconductor Devices			CE 09:00 ~ 11:55	CE 13:00 ~ 14:45				
S22 Renaissance and Novel Development of Poly Si TFT Technology						144 13:30 ~ 18:35		
S23 Trends of ferroelectric HfO2 technologies						141 13:30 ~ 18:30		
S24 Current status and future prospect of atomic layer processes						223 13:45 ~ 18:45		
S25 New Process Technology of Nitride Semiconductors		146 13:30 ~ 18:00						
S26 The forefront of silica glass						432 14:00 ~ 18:00		
S27 Trend of van der Waals heterostructured devices				311 13:30 ~ 17:15				
CS Code-sharing session								
CS.1 Code-sharing Session of 3.2 & 12.3						232 10:00 ~ 11:30		
CS.2 Code-sharing Session of 3.3 & 4.4			221B 09:15 ~ 12:00	221B 13:15 ~ 16:30		PB10 09:30 ~ 11:30		
CS.3 Code-sharing Session of 3.5 & 3.14			431B 10:45 ~ 12:00					
CS.4 Code-sharing Session of 3.11 & 3.12						225B 09:00 ~ 12:00		
CS.5 Code-sharing Session of 3.11 & 3.13 & 3.15			225B 09:00 ~ 11:30					
CS.6 Code-sharing Session of 3.11 & 13.6							143 09:00 ~ 12:00	
CS.7 Code-sharing Session of 6.5 & 7.6		431B 13:45 ~ 17:15						
CS.8 Code-sharing Session of 7.4 & 9.5		212B 13:30 ~ 16:45						
CS.9 Code-sharing Session of 10.1, 10.2, 10.3 & 10.4						131 09:00 ~ 12:00	131 13:00 ~ 15:15	

Schedule by Category (II)

Category Section	Sep. 18 (Tue.)		Sep. 19 (Wed.)		Sep. 20 (Thu.)		Sep. 21 (Fri.)	
	AM	PM	AM	PM	AM	PM	AM	PM
1 Interdisciplinary Physics and Related Areas of Science and								
1.1 Interdisciplinary and General Physics		225A 13:15 ~ 16:30		PA1 13:30 ~ 15:30				
1.2 Education			PA1 09:30 ~ 11:30					
1.3 Novel technologies and interdisciplinary engineering			212B 09:15 ~ 12:00	PA2 13:30 ~ 15:30				
1.4 Energy conversion, storage, resources and environment					PB1 09:30 ~ 11:30	231A 13:15 ~ 16:00		
1.5 Instrumentation, measurement and Metrology	231A 09:30 ~ 11:45	231A 13:15 ~ 17:30		PA6 16:00 ~ 18:00				
1.6 Ultrasonics	231B 10:00 ~ 12:00	PA1 13:30 ~ 15:30						
2 Ionizing Radiation								
2.1 Radiation physics and Detector fundamentals					224B 09:00 ~ 11:45	224B 13:30 ~ 15:30		
2.2 Detection systems						PB5 16:00 ~ 18:00	224B 09:00 ~ 12:00	224B 13:00 ~ 15:00
2.3 Application, radiation generators, new technology		231B 13:15 ~ 17:45						
3 Optics and Photonics								
3.1 Basic optics and frontier of optics	231C 09:30 ~ 12:15	231C 13:15 ~ 18:30	PA2 09:30 ~ 11:30					
3.2 Equipment optics and materials						436 13:45 ~ 15:45	PA1 09:30 ~ 11:30	
CS.1 Code-sharing Session of 3.2 & 12.3					232 10:00 ~ 11:30			
3.3 Information photonics and image engineering						431B 13:45 ~ 17:30		
CS.2 Code-sharing Session of 3.3 & 4.4			221B 09:15 ~ 12:00	221B 13:15 ~ 16:30	PB10 09:30 ~ 11:30			
3.4 Biomedical optics						PB6 16:00 ~ 18:00	234A 09:00 ~ 11:30	234A 13:15 ~ 17:45
3.5 Laser system and materials			431B 09:00 ~ 10:30	431B 13:45 ~ 18:45	PB2 09:30 ~ 11:30			
CS.3 Code-sharing Session of 3.5 & 3.14			431B 10:45 ~ 12:00					
3.6 Ultrashort-pulse and high-intensity lasers			PA3 09:30 ~ 11:30		211A 09:15 ~ 12:00		211A 09:15 ~ 12:15	211A 13:30 ~ 17:15
3.7 Laser processing	136 09:00 ~ 12:15	136 13:45 ~ 18:00	PA4 09:30 ~ 11:30	224A 09:00 ~ 11:45				
3.8 Optical measurement, instrumentation, and sensor		PA4 16:00 ~ 18:00	438 09:00 ~ 12:15	438 13:45 ~ 19:00				
3.9 Terahertz technologies					PB3 09:30 ~ 11:30	212A 13:15 ~ 17:30	212A 09:00 ~ 11:45	212A 13:15 ~ 14:45
3.10 Optical quantum physics and technologies	438 09:30 ~ 11:30	438 13:45 ~ 16:45	PA5 09:30 ~ 11:30					
3.11 Photonic structures and phenomena	225B 09:30 ~ 11:45			225B 13:15 ~ 17:15		PA1 13:30 ~ 15:30		
CS.4 Code-sharing Session of 3.11 & 3.12					225B 09:00 ~ 12:00			
CS.5 Code-sharing Session of 3.11 & 3.13			225B 09:00 ~ 11:30					
CS.6 Code-sharing Session of 3.11 & 13.6							143 09:00 ~ 12:00	
3.12 Nanoscale optical science and near-field optics			437 09:00 ~ 12:30	PA7 16:00 ~ 18:00		224A 13:15 ~ 18:00	224A 09:00 ~ 11:45	224A 13:15 ~ 16:45
CS.4 Code-sharing Session of 3.11 & 3.12					225B 09:00 ~ 12:00			
3.13 Semiconductor optical devices	232 09:00 ~ 12:00	232 13:15 ~ 18:00			PB4 09:30 ~ 11:30			
CS.5 Code-sharing Session of 3.11 & 3.13			225B 09:00 ~ 11:30					
3.14 Optical control devices and optical fibers				212A 13:15 ~ 16:30	PB5 09:30 ~ 11:30			
CS.3 Code-sharing Session of 3.5 & 3.14			431B 10:45 ~ 12:00					
3.15 Silicon photonics	212A 09:30 ~ 11:45	212A 13:15 ~ 17:30		PA3 13:30 ~ 15:30				
CS.5 Code-sharing Session of 3.11 & 3.13 & 3.15			225B 09:00 ~ 11:30					
4 JSAP-OSA Joint Symposia 2018								
4.1 Plasmonics and Nanophotonics	211B 09:15 ~ 11:45	211B 13:15 ~ 18:15	211B 09:15 ~ 11:45	211B 13:15 ~ 18:00	PB6 09:30 ~ 11:30			
4.2 Photonics Devices, Photonic Integrated Circuit and Silicon Photonics					PB7 09:30 ~ 11:30		211B 09:00 ~ 11:45	211B 13:15 ~ 16:15
4.3 Ultrafast Optics and Photonics							221B 09:45 ~ 11:45	221B 13:15 ~ 14:45
CS.2 Code-sharing Session of 3.3 & 4.4			221B 09:15 ~ 12:00	221B 13:15 ~ 16:30	PB10 09:30 ~ 11:30			
4.5 Nanocarbon and 2D Materials						221B 13:15 ~ 17:15		
4.6 Terahertz Photonics		221B 13:15 ~ 18:30						
4.7 Laser Material Processing and Manipulation				231B 13:15 ~ 16:45				
4.8 Quantum Optics and Nonlinear Optics					211B 09:00 ~ 11:45	211B 13:15 ~ 16:15		

Schedule by Category (III)

Category Section	Sep. 18 (Tue.)		Sep. 19 (Wed.)		Sep. 20 (Thu.)		Sep. 21 (Fri.)	
	AM	PM	AM	PM	AM	PM	AM	PM
6 Thin Films and Surfaces								
6.1 Ferroelectric thin films			133 09:00 ~ 12:15	133 13:45 ~ 19:00	PB8 09:30 ~ 11:30			
6.2 Carbon-based thin films					PB9 09:30 ~ 11:30	222 13:15 ~ 19:30	232 09:00 ~ 12:00	232 13:15 ~ 18:00
6.3 Oxide electronics	223 09:15 ~ 11:45	223 13:15 ~ 18:00		PB1 13:30 ~ 15:30	222 09:00 ~ 12:15		222 09:00 ~ 12:00	
6.4 Thin films and New materials		PA2 13:30 ~ 15:30	234B 09:15 ~ 11:45	234B 13:15 ~ 18:30			234B 09:15 ~ 11:45	234B 13:15 ~ 15:30
6.5 Surface Physics, Vacuum	431B 10:00 ~ 12:15			PB2 13:30 ~ 15:30				
CS.7 Code-sharing Session of 6.5 & 7.6		431B 13:45 ~ 17:15						
6.6 Probe Microscopy	143 09:30 ~ 11:45	143 13:45 ~ 17:45	143 09:30 ~ 11:45	PB3 13:30 ~ 15:30				
7 Beam Technology and Nanofabrication								
7.1 X-ray technologies					PA1 09:30 ~ 11:30		235 10:00 ~ 12:00	235 13:30 ~ 16:45
7.2 Applications and technologies of electron beams								223 13:15 ~ 16:30
7.3 Micro/Nano patterning and fabrication				234A 13:30 ~ 16:15				
CS.8 Code-sharing Session of 7.4 & 9.5		212B 13:30 ~ 16:45						
7.5 Ion beams								222 13:15 ~ 15:15
7.6 Atomic/molecular beams and beam-related new technologies				PB4 13:30 ~ 15:30				
CS.7 Code-sharing Session of 6.5 & 7.6		431B 13:45 ~ 17:15						
8 Plasma Electronics								
8.1 Plasma production and diagnostics			141 09:00 ~ 10:30			PA5 16:00 ~ 18:00		
8.2 Plasma deposition of thin film, plasma etching and surface treatment					438 09:00 ~ 12:15	438 13:45 ~ 19:15		PB1 13:30 ~ 15:30
8.3 Plasma nanotechnology					437 09:00 ~ 12:00			PB2 13:30 ~ 15:30
8.4 Plasma life sciences						146 13:45 ~ 16:15 PA6 16:00 ~ 18:00	144 09:00 ~ 12:30	
8.5 Plasma phenomena, emerging area of plasmas and their new applications						PA7 16:00 ~ 18:00 PA8 16:00 ~ 18:00	136 09:00 ~ 12:15	136 13:45 ~ 16:00
8.6 Plasma Electronics English Session	234A 09:00 ~ 10:15	234A 12:00 ~ 12:45						
8.7 Plasma Electronics Invited Talk	234A 10:30 ~ 12:00		141 11:45 ~ 12:15					
8.8 Plasma Electronics Award Speech			141 10:45 ~ 11:45					
9 Applied Materials Science								
9.1 Dielectrics, ferroelectrics					231A 09:00 ~ 11:45	PB1 13:30 ~ 15:30		
9.2 Nanowires and Nanoparticles			221A 09:00 ~ 11:45	221A 13:15 ~ 18:15		PB2 13:30 ~ 15:30		
9.3 Nanoelectronics						PB3 13:30 ~ 15:30	221A 09:30 ~ 11:30	221A 13:00 ~ 14:30
9.4 Thermoelectric conversion				PA8 16:00 ~ 18:00			438 09:15 ~ 12:00	438 13:45 ~ 17:15
9.5 New functional materials and new phenomena			PB1 09:30 ~ 11:30	437 13:45 ~ 18:00				
CS.8 Code-sharing Session of 7.4 & 9.5		212B 13:30 ~ 16:45						
10 Spintronics and Magnetics								
CS.9 Code-sharing Session of 10.1, 10.2, 10.3 & 10.4					131 09:00 ~ 12:00	131 13:00 ~ 15:15		
10.1 Emerging materials in spintronics and magnetics (including fabrication and characterization methodologies)	131 09:00 ~ 11:45	PB1 13:30 ~ 15:30 131 16:00 ~ 17:30						
10.2 Fundamental and exploratory device technologies for spin			331 09:00 ~ 10:30					
10.3 Spin devices, magnetic memories and storages		PB1 13:30 ~ 15:30	331 10:45 ~ 12:15					
10.4 Semiconductor spintronics, superconductor, multiferroics						131 15:30 ~ 17:00	131 09:00 ~ 12:00	131 13:00 ~ 14:45
10.5 Application of magnetic field					431B 09:00 ~ 12:15			
11 Superconductivity								
11.1 Fundamental properties				143 13:45 ~ 17:30	143 09:30 ~ 11:45			
11.2 Thin and thick superconducting films, coated conductors and film crystal growth						143 13:45 ~ 17:00		
11.3 Critical Current, Superconducting Power Applications			PB2 09:30 ~ 11:30	212B 13:15 ~ 17:15				
11.4 Analog applications and their related technologies					212B 09:00 ~ 11:00	212B 13:15 ~ 17:15		
11.5 Junction and circuit fabrication process, digital applications							212B 09:00 ~ 12:00	

Schedule by Category (IV)

Category Section	Sep. 18 (Tue.)		Sep. 19 (Wed.)		Sep. 20 (Thu.)		Sep. 21 (Fri.)	
	AM	PM	AM	PM	AM	PM	AM	PM
12 Organic Molecules and Bioelectronics								
12.1 Fabrications and Structure Controls			231C 09:00 ~ 11:45	231C 13:15 ~ 18:15			PA2 09:30 ~ 11:30	
12.2 Characterization and Materials Physics					PA2 09:30 ~ 11:30	231B 13:15 ~ 17:15	231C 09:00 ~ 12:00	231C 13:15 ~ 16:00
12.3 Functional Materials and Novel Devices		211A 13:15 ~ 18:00	211A 09:00 ~ 11:45	211A 13:15 ~ 14:45		PA2 13:30 ~ 15:30		
CS.1 Code-sharing Session of 3.2 & 12.3					232 10:00 ~ 11:30			
12.4 Organic light-emitting devices and organic transistors	145 09:00 ~ 11:45	PA5 16:00 ~ 18:00	145 09:00 ~ 11:45	145 13:45 ~ 18:00	145 09:00 ~ 12:15			
12.5 Organic solar cells			432 09:00 ~ 12:15		432 09:00 ~ 12:15	PB4 13:30 ~ 15:30	432 09:00 ~ 12:15	432 13:45 ~ 18:00
12.6 Nanobiotechnology	222 09:00 ~ 12:00	222 13:30 ~ 17:15	222 09:00 ~ 10:30	222 13:30 ~ 17:00		PA3 13:30 ~ 15:30		
12.7 Biomedical Engineering and Biochips	221C 09:00 ~ 11:45	221C 13:15 ~ 15:30		221C 13:15 ~ 17:45	221C 09:00 ~ 11:45	PA4 13:30 ~ 15:30		
13 Semiconductors								
13.1 Fundamental properties, surface and interface, and simulations of Si related materials					PA3 09:30 ~ 11:30		135 09:00 ~ 11:45	135 13:00 ~ 17:15
13.2 Exploratory Materials, Physical Properties, Devices			436 09:30 ~ 11:45	436 13:45 ~ 18:45	PA4 09:30 ~ 11:30			
13.3 Insulator technology					PA5 09:30 ~ 11:30		145 09:00 ~ 11:30	145 13:15 ~ 17:00
13.4 Si wafer processing /Si based thin film /Interconnect technology/ MEMS/ Integration technology	233 09:30 ~ 12:00	PB2 13:30 ~ 15:30	233 09:00 ~ 12:00		233 09:30 ~ 11:45		233 09:00 ~ 12:00	233 13:00 ~ 16:45
13.5 Semiconductor devices and related technologies					CE 09:00 ~ 12:15		CE 09:00 ~ 11:30	PB3 13:30 ~ 15:30
13.6 Nanostructures, quantum phenomena, and nano quantum devices						211A 13:15 ~ 18:15		PB4 13:30 ~ 15:30
CS.6 Code-sharing Session of 3.11 & 13.6							143 09:00 ~ 12:00	
13.7 Compound and power electron devices and process technology		PA6 16:00 ~ 18:00		CE 15:00 ~ 18:45	331 09:00 ~ 12:30	331 13:45 ~ 17:15	331 09:00 ~ 12:15	331 13:45 ~ 16:00
13.8 Optical properties and light-emitting devices			235 09:45 ~ 11:30	235 13:30 ~ 17:00	235 09:30 ~ 11:30	235 13:30 ~ 17:30	PA3 09:30 ~ 11:30	
13.9 Compound solar cells			136 09:00 ~ 12:15	136 13:45 ~ 15:45	136 09:30 ~ 12:00	136 13:30 ~ 16:15		
				PB5 16:00 ~ 18:00				
15 Crystal Engineering								
15.1 Bulk crystal growth							431B 09:00 ~ 12:00	PB5 13:30 ~ 15:30
15.2 II-VI and related compounds								431B 13:45 ~ 15:30
15.3 III-V-group epitaxial crystals, Fundamentals of epitaxy		234B 13:15 ~ 18:30		PB6 16:00 ~ 18:00				
15.4 III-V-group nitride crystals	146 09:00 ~ 12:30		146 09:00 ~ 12:15	146 13:15 ~ 19:15	146 09:00 ~ 12:15		146 09:00 ~ 12:15	146 13:30 ~ 18:00
				PA4 13:30 ~ 15:30				
15.5 Group IV crystals and alloys	235 09:30 ~ 11:45	235 13:15 ~ 17:00		PB7 16:00 ~ 18:00				
15.6 Group IV Compound Semiconductors (SiC)					141 09:00 ~ 12:30	221C 13:45 ~ 18:00	141 09:00 ~ 12:30	PB6 13:30 ~ 15:30
15.7 Crystal characterization, impurities and crystal defects			131 09:00 ~ 12:00	131 13:30 ~ 17:45	PA6 09:30 ~ 11:30			
16 Amorphous and Microcrystalline Materials								
16.1 Fundamental properties, evaluation, process and devices in disordered materials		PA3 13:30 ~ 15:30		231A 13:15 ~ 15:30	135 09:00 ~ 11:30			
16.2 Energy Harvesting			231A 09:00 ~ 10:30					
16.3 Bulk, thin-film and other silicon-based solar cells				PA5 13:30 ~ 15:30	133 09:30 ~ 11:45	133 13:45 ~ 17:45	133 09:30 ~ 11:45	133 13:45 ~ 17:00
17 Nanocarbon Technology								
17.1 Carbon nanotubes & other nanocarbon materials		PB3 16:00 ~ 18:00	224B 09:00 ~ 11:45	224B 13:15 ~ 18:45				
17.2 Graphene				311 17:30 ~ 19:00	311 09:00 ~ 12:15	311 13:45 ~ 18:30	311 09:00 ~ 12:45	
17.3 Layered materials	224B 09:00 ~ 11:45	224B 13:15 ~ 16:00	311 09:00 ~ 12:15					
		PB3 16:00 ~ 18:00						
21 Joint Session K								
21.1 Joint Session K "Wide bandgap oxide semiconductor materials and devices"			224A 09:30 ~ 11:30	224A 13:00 ~ 15:15	234A 09:00 ~ 12:00	234A 13:30 ~ 18:30		
				PB8 16:00 ~ 18:00				
22 Joint Session M								
22.1 Joint Session M "Phonon Engineering"				PA9 16:00 ~ 18:00	234B 09:00 ~ 11:45	234B 13:15 ~ 18:00		