

Schedule by Category (I)

Category	Mar. 12 (Thu.)		Mar. 13 (Fri.)		Mar. 14 (Sat.)		Mar. 15 (Sun.)	
Section	AM	PM	AM	PM	AM	PM	AM	PM
S Symposium								
NT1 Development of emerging talent in applied physics through diversity promotion - what JSAP can/should do -				A304 13:30 ~ 18:00				
NT2 Critical Role of Semiconductors in Auto Industry: Future of automotive semiconductors and Challenges by Cutting-Edge researchers			A307 10:00 ~ 12:10					
NT3 To accelerate social implementations of applied-physic technologies related to integrated circuits						A304 13:30 ~ 17:30		
T1 Emerging devices, architectures and systems for the post-Moore's Law era				A307 13:30 ~ 17:10				
T2 Realization, Learning, Environment and Energy						D419 14:00 ~ 16:40		
T3 Recent Advances in Radioisotope Imaging Technology for Plant Science Research				A501 13:15 ~ 16:45				
T4 New developments in computing technique based on optical neural network		B414 13:00 ~ 16:45						
T5 Research progress on laser-induced periodic surface structure ~What has been revealed? How about the technology outlook?~				B410 13:30 ~ 18:00				
T6 Applied physics for quantum computer developments				B414 13:30 ~ 17:30				
T7 Fundamental and applications of spatial light modulation						B410 13:30 ~ 17:30		
T8 Nano-Materials Science for MIR-THz photonics					B414 10:00 ~ 12:05	B414 13:30 ~ 17:05		
T9 Disturbance of light propagating the fluctuating media: The way how to measure and overcome it							B409 09:00 ~ 12:10	
T10 Leading edge of all-solid-state batteries: Basics, challenges, and future prospects				A410 13:30 ~ 17:00				
T11 New developments of surface properties and structural analysis by quantum beams				D215 13:30 ~ 16:45				
T12 New functional memory devices with oxide materials and their physics					A401 09:15 ~ 11:55	A401 13:30 ~ 15:30		
T13 The fusion of multidimensional measurement technologies and data science toward the advancement of bioimaging and biosensing						A408 13:30 ~ 18:00		
T14 Quantum-beam study of optical functions in transition-metal-compound thin films			D311 09:00 ~ 12:00	D311 13:45 ~ 16:15				
T15 Progresses and future on EUV and soft x-ray imaging techniques						D305 13:30 ~ 17:20		
T16 Forefront of elucidating the mechanism of plasma-induced biological reactions				A205 13:30 ~ 17:20				
T17 Science of Ensemble Phenomenon ~Emergence of Novel Functions and Applications by Harmonization of Complex-States~						A409 13:30 ~ 17:30		
T18 Future developments on energy storage devices ~For improvement of capacitance and reliability~				A402 13:30 ~ 17:55				
T19 Pitfalls in thermoelectric measurements				D511 13:30 ~ 16:55				
T20 Frontier of Nonvolatile Memory technologies - Spintronic, Phase-change, Resistive and Ferroelectric-				A301 13:30 ~ 17:15				
T21 Sensing technology realized by superconductor -Recent applications of SQUID-						D411 13:30 ~ 17:35		
T22 Organic Transistors: Exploring New Frontiers						A410 13:30 ~ 18:30		
T23 Development of multinary compounds based on engineering for diverse stable phases -Future Materials Exploring Initiative ~Future of Environment and Energy Materials~ -	A301 10:00 ~ 12:00	A301 13:30 ~ 17:15						
T24 IoT devices and technologies in production fields		A410 13:30 ~ 16:45						
T25 Recent progress in Advanced Ion Microscopy: Application to nano materials and devices				A303 13:30 ~ 17:15				
T26 Materials Science and Advanced Electronics Created by Singularity of Nitride Semiconductors -Frontiers in defect physics: Merging characterization and theory-		A307 13:30 ~ 17:30						
T27 Nano-cybernetics of interface bonded at room or low temperature and ultra thin films at heterojunction interface					A201 09:00 ~ 12:15	A201 13:45 ~ 17:20		
T28 Advances of Energy Harvesting Technologies for Society 5.0			A301 09:00 ~ 12:20					
T29 Current topics and future prospects of amorphous materials and their device applications				A201 13:30 ~ 17:30				
T30 Toward construction of academic theory on "module science" with giving cases of solar cells						A402 13:30 ~ 18:00		
T31 Science and applications of integrated two-dimensional materials				A401 13:30 ~ 18:30				

Schedule by Category (II)

Category	Mar. 12 (Thu.)		Mar. 13 (Fri.)		Mar. 14 (Sat.)		Mar. 15 (Sun.)	
Section	AM	PM	AM	PM	AM	PM	AM	PM
CS Code-sharing Session								
CS.1 Code-sharing Session of 3.5 & 3.14		B508 16:45 ~ 17:30						
CS.2 Code-sharing Session of 3.11 & 3.12								B415 13:15 ~ 16:15
CS.3 Code-sharing Session of 3.11 & 3.13							B415 09:30 ~ 12:00	
CS.4 Code-sharing Session of 6.1 & 13.3 & 13.5						A303 13:45 ~ 17:30		
CS.5 Code-sharing Session of 7.4 & 9.5					D215 09:30 ~ 11:45	D215 13:45 ~ 15:45		
CS.6 Code-sharing Session of 8.3 & 9.2 &13.6		D511 13:45 ~ 17:15						
CS.7 Code-sharing Session of 10.1 & 10.2 & 10.3 & 10.4						A501 15:45 ~ 19:00		
31 Focused Session "AI Electronics"								
31.1 Focused Session "AI Electronics"					A301 09:15 ~ 12:15	A301 13:45 ~ 17:15		
1 Interdisciplinary Physics and Related Areas of Science and Technology								
1.1 Interdisciplinary and General Physics	PB1 09:30 ~ 11:30	B409 13:15 ~ 17:15						
1.2 Education					PA1 09:30 ~ 11:30			
1.3 Novel technologies and interdisciplinary engineering			PA1 09:30 ~ 11:30	D209 13:15 ~ 15:30				
1.4 Energy conversion, storage, resources and environment			PB1 09:30 ~ 11:30	A403 13:15 ~ 16:45				
1.5 Instrumentation, measurement and Metrology	PB2 09:30 ~ 11:30	B408 13:30 ~ 16:00						
1.6 Ultrasonics						D311 13:30 ~ 15:30	PA1 09:30 ~ 11:30	D305 13:15 ~ 16:45
2 Ionizing Radiation								
2.1 Radiation physics and Detector fundamentals			D209 09:30 ~ 11:30		D511 09:15 ~ 11:45	D511 13:00 ~ 15:45		
2.2 Detection systems		D209 13:45 ~ 18:15				PA2 16:00 ~ 18:00		
2.3 Application, radiation generators, new technology							D209 09:00 ~ 11:45	
							D511 09:00 ~ 11:45	
2.4 Accelerator Mass Spectrometry, Accelerator Beam Analysis					D209 09:00 ~ 11:45	D209 13:45 ~ 15:00		
						PA2 16:00 ~ 18:00		
3 Optics and Photonics								
3.1 Basic optics and frontier of optics					PB1 09:30 ~ 11:30	B408 13:15 ~ 18:15	B410 09:00 ~ 12:15	
3.2 Equipment optics and materials						PB1 13:30 ~ 15:30	B414 09:00 ~ 11:45	B414 13:15 ~ 14:15
3.3 Information photonics and image engineering	PA1 09:30 ~ 11:30			B415 13:15 ~ 17:00				
3.4 Biomedical optics					PB2 09:30 ~ 11:30		B309 10:30 ~ 11:45	B309 13:15 ~ 16:00
3.5 Laser system and materials	B508 09:00 ~ 12:00	B508 13:15 ~ 16:30		PA1 13:30 ~ 15:30				
CS.1 Code-sharing Session of 3.5 & 3.14		B508 16:45 ~ 17:30						
3.6 Ultrashort-pulse and high-intensity lasers	B415 09:30 ~ 11:30	B415 13:15 ~ 17:15	B415 09:00 ~ 10:15		PB3 09:30 ~ 11:30			
3.7 Laser processing	B410 09:30 ~ 11:45	B410 13:30 ~ 18:00	B410 09:00 ~ 11:30		PB4 09:30 ~ 11:30			
3.8 Optical measurement, instrumentation, and sensor					B409 09:00 ~ 11:45	B409 13:15 ~ 17:30	PA2 09:30 ~ 11:30	B409 13:15 ~ 15:00
3.9 Terahertz technologies	B414 09:00 ~ 11:45	PA1 13:30 ~ 15:30	B508 09:00 ~ 11:35	B508 13:15 ~ 19:00				
3.10 Optical quantum physics and technologies					B406 09:30 ~ 11:15	B406 13:15 ~ 18:00	PA3 09:30 ~ 11:30	
3.11 Photonic structures and phenomena				B401 13:00 ~ 15:30	B415 09:30 ~ 12:00	B415 13:30 ~ 17:50		
				PA7 16:00 ~ 18:00				
CS.2 Code-sharing Session of 3.11 & 3.12								B415 13:15 ~ 16:15
CS.3 Code-sharing Session of 3.11 & 3.13							B415 09:30 ~ 12:00	
3.12 Nanoscale optical science and near-field optics			B409 09:00 ~ 11:45	B409 13:15 ~ 18:15	B309 09:00 ~ 11:45	B309 13:15 ~ 18:30	PA4 09:30 ~ 11:30	
CS.2 Code-sharing Session of 3.11 & 3.12								B415 13:15 ~ 16:15
3.13 Semiconductor optical devices					B410 09:30 ~ 12:15	PB2 13:30 ~ 15:30		B410 13:15 ~ 16:45
CS.3 Code-sharing Session of 3.11 & 3.13							B415 09:30 ~ 12:00	
3.14 Optical control devices and optical fibers	B406 10:30 ~ 11:45	B406 13:15 ~ 15:30		PA2 13:30 ~ 15:30				
CS.1 Code-sharing Session of 3.5 & 3.14		B508 16:45 ~ 17:30						
3.15 Silicon photonics and integrated photonics						PB3 13:30 ~ 15:30	B508 09:30 ~ 11:45	B508 15:15 ~ 17:00
						B508 15:45 ~ 18:00		
3.16 Optics and Photonics English Session								B508 13:15 ~ 15:00

Schedule by Category (III)

Category	Mar. 12 (Thu.)		Mar. 13 (Fri.)		Mar. 14 (Sat.)		Mar. 15 (Sun.)	
Section	AM	PM	AM	PM	AM	PM	AM	PM
6 Thin Films and Surfaces								
6.1 Ferroelectric thin films			PA2 09:30 ~ 11:30		D419 09:00 ~ 12:15		D419 09:00 ~ 12:15	
CS.4 Code-sharing Session of 6.1 & 13.3 & 13.5						A303 13:45 ~ 17:30		
6.2 Carbon-based thin films				PA8 16:00 ~ 18:00	D221 09:00 ~ 12:15	D221 13:45 ~ 18:15	D221 10:30 ~ 12:00	
6.3 Oxide electronics		D411 13:45 ~ 17:30	PA3 09:30 ~ 11:30	D411 13:45 ~ 18:15			D311 09:00 ~ 12:15	D311 13:45 ~ 15:45
6.4 Thin films and New materials			D221 09:00 ~ 12:15	D221 13:45 ~ 18:30			PB1 09:30 ~ 11:30	
6.5 Surface Physics, Vacuum					D411 10:00 ~ 12:00	D519 13:30 ~ 16:00		
						PB6 16:00 ~ 18:00		
6.6 Probe Microscopy				D519 13:45 ~ 17:00	PB5 09:30 ~ 11:30		D305 09:00 ~ 11:30	
7 Beam Technology and Nanofabrication								
7.1 X-ray technologies		PA2 13:30 ~ 15:30			B508 09:00 ~ 12:00			
7.2 Applications and technologies of electron beams							D215 09:00 ~ 12:15	
7.3 Micro/Nano patterning and fabrication								D215 13:45 ~ 16:45
7.4 Buried interface sciences with quantum beam (*Code-sharing session with 9.5)					D215 09:30 ~ 11:45	D215 13:45 ~ 15:45		
7.5 Ion beams					D305 09:15 ~ 12:00			
7.6 Atomic/molecular beams and beam-related new technologies								
8 Plasma Electronics								
8.1 Plasma production and diagnostics		A302 13:15 ~ 18:00				PB4 13:30 ~ 15:30	PB2 09:30 ~ 11:30	
8.2 Plasma deposition of thin film, plasma etching and surface treatment		A205 13:45 ~ 18:00	A205 09:00 ~ 10:30					
8.3 Plasma nanotechnology					D311 09:00 ~ 10:15			
CS.6 Code-sharing Session of 8.3 & 9.2 &13.6		D511 13:45 ~ 17:15						
8.4 Plasma life sciences			A201 09:00 ~ 11:30		A304 09:00 ~ 11:30			
8.5 Plasma phenomena, emerging area of plasmas and their new applications							A304 09:00 ~ 11:45	A304 13:15 ~ 15:00
8.6 Plasma Electronics English Session					D311 10:30 ~ 12:00	PB4 13:30 ~ 15:30	PB2 09:30 ~ 11:30	
8.7 Plasma Electronics Invited Talk			A205 10:45 ~ 11:15					
9 Applied Materials Science								
9.1 Dielectrics, ferroelectrics			D519 09:00 ~ 11:45		D519 09:00 ~ 11:00	PB5 13:30 ~ 15:30		
9.2 Nanoparticles, Nanowires and Nanosheets			D305 09:00 ~ 11:45	D305 13:45 ~ 18:15	PA2 09:30 ~ 11:30			
CS.6 Code-sharing Session of 8.3 & 9.2 &13.6		D511 13:45 ~ 17:15						
9.3 Nanoelectronics	D311 10:00 ~ 11:30	D311 13:30 ~ 16:00	PA4 09:30 ~ 11:30					
9.4 Thermoelectric conversion	D221 09:00 ~ 11:45	D221 13:00 ~ 15:30	D511 09:00 ~ 12:15					
		PA4 16:00 ~ 18:00						
9.5 New functional materials and new phenomena					PA3 09:30 ~ 11:30			
CS.5 Code-sharing Session of 7.4 & 9.5					D215 09:30 ~ 11:45	D215 13:45 ~ 15:45		
10 Spintronics and Magnetics								
CS.7 Code-sharing Session of 10.1 & 10.2 & 10.3 & 10.4						A501 15:45 ~ 19:00		
10.1 Emerging materials in spintronics and magnetics (including fabrication and charactrization methodologies)						PA1 13:30 ~ 15:30	A501 09:00 ~ 12:30	
10.2 Fundamental and exploratory device technologies for spin					A501 09:00 ~ 12:30			
10.3 Spin devices, magnetic memories and storages			A501 10:00 ~ 12:00					
10.4 Semiconductor spintronics, superconductor, multiferroics		A501 13:15 ~ 17:45						
10.5 Application of magnetic field								A202 13:45 ~ 17:00
11 Superconductivity								
11.1 Fundamental properties		PA3 13:30 ~ 15:30	B406 09:00 ~ 11:45	B408 13:15 ~ 17:45				
11.2 Thin and thick superconducting films, coated conductors and film crystal growth			B407 09:00 ~ 12:00					
11.3 Critical Current, Superconducting Power Applications				B406 13:15 ~ 16:45				
11.4 Analog applications and their related technologies					B407 13:15 ~ 16:00	B407 09:00 ~ 11:45		
11.5 Junction and circuit fabrication process, digital applications				B408 09:00 ~ 11:15		B408 09:00 ~ 11:45		

Schedule by Category (IV)

Category Section	Mar. 12 (Thu.)		Mar. 13 (Fri.)		Mar. 14 (Sat.)		Mar. 15 (Sun.)	
	AM	PM	AM	PM	AM	PM	AM	PM
12 Organic Molecules and Bioelectronics								
12.1 Fabrications and Structure Controls	PB3 09:30 ~ 11:30	A404 13:15 ~ 16:30		A404 13:15 ~ 16:45				
12.2 Characterization and Materials Physics	A405 09:00 ~ 12:00	A405 13:15 ~ 18:00	A405 09:00 ~ 12:00	A405 13:15 ~ 18:00	PB6 09:30 ~ 11:30			
12.3 Functional Materials and Novel Devices			A410 09:30 ~ 11:30		A408 09:30 ~ 11:30	PB7 16:00 ~ 18:00	A408 09:15 ~ 11:45	A408 13:15 ~ 16:30
12.4 Organic light-emitting devices and organic transistors	A409 09:15 ~ 11:45	A409 13:15 ~ 17:15 PA5 16:00 ~ 18:00	A409 09:00 ~ 11:30	A409 13:15 ~ 17:30	A409 09:00 ~ 11:00			
12.5 Organic solar cells		A402 13:15 ~ 18:00	A402 09:00 ~ 11:45	PA3 13:30 ~ 15:30	A402 09:00 ~ 11:45		A402 09:00 ~ 11:45	A402 13:15 ~ 16:15
12.6 Nanobiotechnology	A407 09:00 ~ 12:00	PA6 16:00 ~ 18:00	A407 09:00 ~ 11:45	A407 13:15 ~ 17:45				
12.7 Biomedical Engineering and Biochips	A408 09:00 ~ 12:15	A408 13:15 ~ 15:30 PA7 16:00 ~ 18:00	A408 09:00 ~ 12:15	A408 13:15 ~ 17:45				
13 Semiconductors								
13.1 Fundamental properties, surface and interface, and simulations of Si related materials	A202 10:00 ~ 11:45	A202 13:15 ~ 16:45		PA4 13:30 ~ 15:30				
13.2 Exploratory Materials, Physical Properties, Devices					A202 09:00 ~ 11:00	PB8 16:00 ~ 18:00	A202 09:00 ~ 11:00	
13.3 Insulator technology					PA4 09:30 ~ 11:30		A305 09:00 ~ 12:30	
CS.4 Code-sharing Session of 6.1 & 13.3 & 13.5						A303 13:45 ~ 17:30		
13.4 Si processing /Si based thin film / MEMS / Equipment technology					A305 09:00 ~ 12:00	A305 13:45 ~ 17:30	PB3 09:30 ~ 11:30	A305 13:45 ~ 16:30
13.5 Semiconductor devices/ Interconnect/ Integration technologies	PB4 09:30 ~ 11:30	A305 13:45 ~ 17:15	A305 09:00 ~ 11:15	A305 13:45 ~ 17:45				
CS.4 Code-sharing Session of 6.1 & 13.3 & 13.5						A303 13:45 ~ 17:30		
13.6 Nanostructures, quantum phenomena, and nano quantum devices	D511 09:30 ~ 12:15		PA5 09:30 ~ 11:30					
CS.6 Code-sharing Session of 8.3 & 9.2 & 13.6		D511 13:45 ~ 17:15						
13.7 Compound and power electron devices and process technology		B401 13:15 ~ 17:30	B401 09:00 ~ 11:45	PA9 16:00 ~ 18:00	B401 09:00 ~ 12:00	B401 13:30 ~ 18:15		
13.8 Optical properties and light-emitting devices		A303 13:45 ~ 17:45	A303 09:30 ~ 11:30	PA10 16:00 ~ 18:00	A303 09:30 ~ 11:15			
13.9 Compound solar cells			A202 09:00 ~ 12:00	A202 13:30 ~ 18:00	PA5 09:30 ~ 11:30			
15 Crystal Engineering								
15.1 Bulk crystal growth	A201 10:00 ~ 12:15	A201 13:45 ~ 17:00				PB9 16:00 ~ 18:00		
15.2 II-VI and related compounds			D215 09:00 ~ 10:45					
15.3 III-V-group epitaxial crystals, Fundamentals of epitaxy	D215 09:30 ~ 11:45	D215 14:00 ~ 17:30		PA5 13:30 ~ 15:30				
15.4 III-V-group nitride crystals	A302 09:00 ~ 12:15		A302 09:00 ~ 12:00	A302 13:30 ~ 16:15 PB1 16:00 ~ 18:00	A302 09:00 ~ 12:30	A302 13:45 ~ 18:45	A302 09:00 ~ 12:15	A302 13:45 ~ 17:00
15.5 Group IV crystals and alloys	D519 10:00 ~ 12:15	D519 13:45 ~ 16:15		PA6 13:30 ~ 15:30				
15.6 Group IV Compound Semiconductors (SiC)			PA6 09:30 ~ 11:30		A410 09:00 ~ 11:45		A201 09:00 ~ 11:30	A201 13:00 ~ 17:00
15.7 Crystal characterization, impurities and crystal defects						PB10 16:00 ~ 18:00	D411 09:00 ~ 12:00	D411 13:45 ~ 15:00
16 Amorphous and Microcrystalline Materials								
16.1 Fundamental properties, evaluation, process and devices in disordered materials			PB2 09:30 ~ 11:30		A407 09:15 ~ 11:30	A407 13:15 ~ 16:30		
16.2 Energy Harvesting	PB5 09:30 ~ 11:30	A407 13:15 ~ 14:15						
16.3 Bulk, thin-film and other silicon-based solar cells		A403 13:15 ~ 17:30	A403 09:15 ~ 11:45		A403 09:15 ~ 11:45		PB4 09:30 ~ 11:30	
17 Nanocarbon Technology								
17.1 Carbon nanotubes & other nanocarbon materials	PA2 09:30 ~ 11:30		A404 09:30 ~ 11:45				A403 09:00 ~ 12:00	A403 13:15 ~ 14:45
17.2 Graphene		A401 17:45 ~ 18:15	A401 09:00 ~ 11:45		A404 09:00 ~ 09:30	A403 13:45 ~ 18:45		
						A404 13:45 ~ 16:15		
17.3 Layered materials		A401 16:15 ~ 17:45			A404 09:30 ~ 11:45	A404 16:30 ~ 19:00	A404 09:00 ~ 11:45	
21 Joint Session K "Wide bandgap oxide semiconductor materials and devices"								
21.1 Joint Session K "Wide bandgap oxide semiconductor materials and devices"	D419 09:00 ~ 12:15	D419 13:45 ~ 17:45	D419 09:00 ~ 12:15	D419 13:45 ~ 18:15			PA5 09:30 ~ 11:30	
22 Joint Session M "Phonon Engineering"								
22.1 Joint Session M "Phonon Engineering"			PB3 09:30 ~ 11:30		A405 09:45 ~ 11:45	A405 13:15 ~ 17:30	A405 09:45 ~ 11:45	
23 Joint Session N Joint Session N "Informatics"								
23.1 Joint Session N "Informatics"			PB4 09:30 ~ 11:30		A205 09:30 ~ 12:15	A205 13:45 ~ 16:45	A205 09:30 ~ 12:15	