



Sunday 21 August 2022

5:00 PM –
7:00 PM

Welcome Reception and Registration

Monday 22 August 2022

7:30 AM – 8:30 AM	Registration				
8:30 AM – 9:00 AM	Opening Remarks Room: Exchange Auditorium				
9:00 AM – 10:00 AM	Plenary: Professor André Geim Room: Exchange Auditorium				
10:00 AM – 11:00 AM	Semi-plenary: Professor Michael Tobar Room: Exchange Auditorium				
11:00 AM – 11:30 AM	Morning Break and Posters Room: Exchange Hall				
11:30 AM – 12:30 PM	MC23: Superconducting Circuits for Quantum Technologies I Room: Exchange Auditorium	MC21: Bound States in Hybrid Superconductor Nanostructures I Room: Charter 1	MC6: Emergent Phenomena in Driven Soft, Active and Biological Matter I Room: Charter 2	MC8: Complex Phases in Soft Matter I Room: Charter 3	MC16: Spin Control in Twisted Van Der Waals Heterostructures I Room: Charter 4
	MC12: Physics in 2D Nanoarchitectonics I Room: Exchange 1	MC28: Condensed-matter Quantum Technology on the Hunt for Dark Matter I Room: Exchange 3	MC47: X-ray FreeElectron Lasers for Condensed Matter & Materials Physics (XFELs for CMMP) I Room: Exchange 4	MC18: Developments at the Frontiers of High-resolution Scanning Probe Microscopy I Room: Exchange 5	MC13: Topological and Geometrical Effects in Complex Nanostructures I Room: Exchange 6
	MC40: Strongly Disordered Insulators I Room: Exchange 7	MC41: Real Space Simulations of Topological Matter and Disordered Materials I Room: Exchange 9	MC44: New Perspectives in Magnonics, from 2D to 3D Systems I Room: Exchange 11		

12:30 PM – 2:00 PM	Lunch, Posters and Exhibition Room: Exchange Hall				
2:00 PM – 3:30 PM (unless stated)	MC23: Superconducting Circuits for Quantum Technologies II	MC21: Bound States in Hybrid Superconductor Nanostructures II	MC6: Emergent Phenomena in Driven Soft, Active and Biological Matter II	MC8: Complex Phases in Soft Matter II	MC19: Advances in the Casimir Force and Heat Transfer Phenomena II
	Room: Exchange Auditorium	Room: Charter 1	Room: Charter 2	Room: Charter 3	Room: Charter 4
	MC12: Physics in 2D Nanoarchitectonics II	MC28: Condensed-matter Quantum Technology on the Hunt for Dark Matter II	MC47: X-ray Free Electron Lasers for Condensed Matter & Materials Physics (XFELs for CMMP) II	MC18: Developments at the Frontiers of High-resolution Scanning Probe Microscopy II	MC13: Topological and Geometrical Effects in Complex Nanostructures II
	Room: Exchange 1	Room: Exchange 3	Room: Exchange 4 Time: 2:00 PM – 4:00 PM	Room: Exchange 5	Room: Exchange 6 Time: 2:00 PM – 4:00 PM
	MC40: Strongly Disordered Insulators II	MC41: Real Space Simulations of Topological Matter and Disordered Materials II	MC44: New Perspectives in Magnonics, from 2D to 3D Systems II		
	Room: Exchange 7	Room: Exchange 9	Room: Exchange 11		
3:30 PM – 4:30 PM	Afternoon Break and Posters Room: Exchange Hall				
4:30 PM – 6:00 PM	MC23: Superconducting Circuits for Quantum Technologies III	MC21: Bound States in Hybrid Superconductor Nanostructures III	MC6: Emergent Phenomena in Driven Soft, Active and Biological Matter III	MC46: Matter Under High Pressure III	MC19: Advances in the Casimir Force and Heat Transfer Phenomena III
	Room: Exchange Auditorium	Room: Charter 1	Room: Charter 2	Room: Charter 3	Room: Charter 4
	MC12: Physics in 2D Nanoarchitectonics III	MC18: Developments at the Frontiers of High-resolution Scanning Probe Microscopy III	MC40: Strongly Disordered Insulators III	MC41: Real Space Simulations of Topological Matter and Disordered Materials III	MC44: New Perspectives in Magnonics, from 2D to 3D Systems III
	Room: Exchange 1	Room: Exchange 5	Room: Exchange 7	Room: Exchange 9	Room: Exchange 11

Tuesday 23 August 2022

9:00 AM – 10:00 AM	Plenary: Professor Matthias Troyer Room: Exchange Auditorium				
10:00 AM – 11:00 AM	Semi-plenary: Professor Päivi Törmä Room: Exchange Auditorium	Semi-plenary: Professor Luis Hueso Room: Charter 1			
11:00 AM – 11:30 AM	Morning Break and Posters Room: Exchange Hall				
11:30 AM – 12:30 PM (unless stated)	MC23: Superconducting Circuits for Quantum Technologies IV Room: Exchange Auditorium	MC21: Bound States in Hybrid Superconductor Nanostructures IV Room: Charter 1	MC6: Emergent Phenomena in Driven Soft, Active and Biological Matter IV Room: Charter 2	MC8: Complex Phases in Soft Matter IV Room: Charter 3	MC35: Collective Effects and Non-Equilibrium Phenomena in Quantum Gases and Superconductors IV Room: Charter 4
	MC12: Physics in 2D Nanoarchitectonics IV Room: Exchange 1	MC45: Interfaces Between Magnonics and Phononics IV Room: Exchange 2	MC36: Integrating Quantum Computers in Condensed Matter Physics Simulations IV Room: Exchange 3 Time: 11:30 AM - 12:45 PM	MC48: Multi-modal Characterisation of Thin Film Optoelectronics for Energy Applications IV Room: Exchange 5	MC42: Broken Ergodicity and Localisation in Quantum Many-body Systems IV Room: Exchange 6
	MC40: Strongly Disordered Insulators IV Room: Exchange 7	MC20: Recent Advances in Quantum Thermodynamics with a Focus on Many-body Interactions IV Room: Exchange 9	MC46: Structure, Dynamics and States in Matter Under High Pressure IV Room: Exchange 10	MC52: Heterostructures, Combining Organic Molecules and 2D Materials IV Room: Exchange 11	
12:30 PM – 2:00 PM	Lunch, Posters, Exhibition and Special Session Special Session: environmental policy and carbon footprint, presented by Henrik Nordborg, Bertrand Dupé and Maxime Deforêt Lunch and Posters - Room: Exchange Hall Special Session – Room: Exchange Auditorium				

2:00 PM – 3:30 PM (unless stated)	MC23: Superconducting Circuits for Quantum Technologies V Room: Exchange Auditorium	MC21: Bound States in Hybrid Superconductor Nanostructures V Room: Charter 1	MC6: Emergent Phenomena in Driven Soft, Active and Biological Matter V Room: Charter 2	MC8: Complex Phases in Soft Matter V Room: Charter 3	MC19: Advances in the Casimir Force and Heat Transfer Phenomena V Room: Charter 4
	MC16: Spin Control in Twisted Van Der Waals Heterostructures V Room: Exchange 1	MC45: Interfaces between Magnonics and Phononics V Room: Exchange 2	MC36: Integrating Quantum Computers in Condensed Matter Physics Simulations V Room: Exchange 3 Time: 2:00 PM - 3:45 PM	MC50: Fermi Surface Topological Transitions – Effects of Interactions V Room: Exchange 4	MC48: Multi-modal Characterisation of Thin Film Optoelectronics for Energy Applications V Room: Exchange 5
	MC42: Broken Ergodicity and Localisation in Quantum Many-body Systems V Room: Exchange 6	MC40: Strongly Disordered Insulators V Room: Exchange 7	MC20: Recent Advances in Quantum Thermodynamics with a Focus on Many-body Interactions V Room: Exchange 9	MC17: Nanomechanical and Electromechanical Systems V Room: Exchange 10	MC52: Heterostructures, Combining Organic Molecules and 2D Materials V Room: Exchange 11
3:30 PM – 4:30 PM	Afternoon Break and Posters Room: Exchange Hall				
4:30 PM – 6:00 PM (unless stated)	MC23: Superconducting Circuits for Quantum Technologies VI Room: Exchange Auditorium (From 4:30 PM – 5:30 PM)	MC21: Bound States in Hybrid Superconductor Nanostructures VI Room: Charter 1	MC6: Emergent Phenomena in Driven Soft, Active and Biological Matter VI Room: Charter 2 Time: 4:30 PM – 5:30 PM	MC46: Structure, Dynamics and States in Matter under High Pressure VI Room: Charter 3	MC19: Advances in the Casimir Force and Heat Transfer Phenomena VI Room: Charter 4
	MC16: Spin Control in Twisted Van Der Waals Heterostructures VI Room: Exchange 1	MC36: Integrating Quantum Computers in Condensed Matter Physics Simulations VI Room: Exchange 3	MC48: Multi-modal Characterisation of Thin Film Optoelectronics for Energy Applications VI Room: Exchange 5 Time: 4:15 PM – 5:45 PM	MC42: Broken Ergodicity and Localisation in Quantum Many-body Systems VI Room: Exchange 6 Time: 4:15 PM – 5:30 PM	MC40: Strongly Disordered Insulators VI Room: Exchange 7
	MC20: Recent Advances in Quantum Thermodynamics with a Focus on Many-body Interactions VI Room: Exchange 9 Time: 4:00 PM – 6:00 PM	MC17: Nanomechanical and Electromechanical Systems VI Room: Exchange 10	MC52: Heterostructures, Combining Organic Molecules and 2D Materials VI Room: Exchange 11		

5:30 PM - 6:30 PM	Semi-plenary: Professor Henrik Nordborg Room: Exchange Auditorium	Semi-plenary: Professor Kartik Srinivasan Room: Charter 2			
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Wednesday 24 August 2022

9:00 AM – 10:00 AM	Plenary: Professor Daan Frenkel Room: Exchange Auditorium				
10:00 AM – 11:00 AM	Semi-plenary: Professor Gábor Csányi Room: Exchange Auditorium	Semi-plenary: Professor Jessica Wade Room: Charter 1			
11:00 AM – 11:30 AM	Morning Break and Posters Room: Exchange Hall				
11:30 AM – 12:30 PM	Europhysics Prize Room: Exchange Auditorium				
12:30 PM – 2:00 PM	Lunch, Posters, Exhibition and Special Session Special Session: Inclusiveness and Diversity presented by Prof Helen Gleeson - IOP representative on Diversity and Inclusion, Dr Judith Hillier - IOP Marie Curie Skłodowska Medal and Prize winner 2021 and Dr Jessica Wade - Imperial College Lunch and Posters - Room: Exchange Hall Special Session – Room: Exchange Auditorium				
2:00 PM – 3:30 PM	MC38: Controlled irradiation Disorder in Model Systems: Organisation, Dynamics, and Transformations VII Room: Exchange Auditorium	MC24: Quantum Electronics at Ultra-low Temperatures VII Room: Charter 1	MC8: Complex Phases in Soft Matter VII Room: Charter 2	MC17: Nanomechanical and Electromechanical Systems VII Room: Charter 3	MC14: Beyond Charge Transport in Nanostructures and 2D Materials via Geometric Design VII Room: Charter 4
	MC35: Collective Effects and Non-Equilibrium Phenomena in Quantum Gases and Superconductors VII Room: Exchange 1	MC10: Nanodevice Iontronics VII Room: Exchange 3	MC42: Broken Ergodicity and Localisation in Quantum Many-body Systems VII Room: Exchange 6	MC40: Strongly Disordered Insulators VII Room: Exchange 7	MC7: Exploring Liquid Properties in Confined Geometry (Up to Mesoscopic Scales) VII Room: Exchange 9
	MC50: Fermi Surface Topological Transitions - Effects of Interactions VII Room: Exchange 11				

3:30 PM – 4:30 PM	Afternoon Break and Posters Room: Exchange Hall				
4:30 PM – 6:00 PM (unless stated)	MC38: Controlled irradiation Disorder in Model Systems: Organisation, Dynamics, and Transformations VIII Room: Exchange Auditorium	MC21: Bound states in hybrid superconductor nanostructures VIII Room: Charter 1 Time: 4:15 PM – 6:00 PM	MC2: Self-Organisation in Living Systems VIII Room: Charter 2	MC17: Nanomechanical and Electromechanical Systems VIII Room: Charter 3	MC14: Beyond Charge Transport in Nanostructures and 2D Materials via Geometric Design VIII Room: Charter 4
	MC35: Collective Effects and Non-Equilibrium Phenomena in Quantum Gases and Superconductors VIII Room: Exchange 1	MC10: Nanodevice Iontronics VIII Room: Exchange 3	MC42: Broken Ergodicity and Localisation in Quantum Many-body Systems VIII Room: Exchange 6	MC40: Strongly Disordered Insulators VIII Room: Exchange 7	MC7: Exploring liquid properties in confined geometry (up to mesoscopic scales) VIII Room: Exchange 9
	MC50: Fermi Surface Topological Transitions - Effects of Interactions VIII Room: Exchange 11				
7:00 PM – 10:00 PM	Conference Dinner Coaches for conference dinner will be departing from outside the venue at 6:15 PM				

Thursday 25 August 2022

10:00 AM - 11:00 AM	Semi-plenary: Professor Qihua Xiong Room: Exchange Auditorium	Semi-plenary: Professor Chris Vale Room: Exchange 1	Semi-plenary: Professor Miha Ravnik Room: Exchange 9		
11:00AM - 11:30AM	Morning Break and Posters Room: Exchange Hall				
11:30 AM - 12:30 AM (unless stated)	MC38: Controlled irradiation Disorder in Model Systems: Organisation, Dynamics, and Transformations IX Room: Exchange Auditorium	MC21: Bound States in Hybrid Superconductor Nanostructures IX Room: Charter 1	MC3: Tissue Dynamics: From in Vivo Experiments to in Silico Modelling IX Room: Charter 2	MC14: Beyond Charge Transport in Nanostructures and 2D Materials via Geometric Design IX Room: Charter 3 Time: 11:30AM - 12:45PM	MC25: Emerging Trends in Many-Body Cavity Quantum Electrodynamics IX Room: Charter 4
	MC35: Collective Effects and Non-Equilibrium Phenomena in Quantum Gases and Superconductors IX Room: Exchange 1	MC10: Nanodevice Iontronics IX Room: Exchange 3	MC9: Recent Developments in Gas Phase Synthesis of Nanoparticles and Applications IX Room: Exchange 4	MC42: Broken Ergodicity and Localisation in Quantum Many-Body Systems IX Room: Exchange 6	MC51: Ultrafast Dynamics in Magnetic and Strongly-Correlated Materials IX Room: Exchange 7 Time: 11:30AM - 12:45PM
	MC7: Exploring Liquid Properties in Confined Geometry (up to mesoscopic scales) IX Room: Exchange 9	MC39: LONE 2022 - Localized Nonlinear Excitations in Condensed Matter IX Room: Exchange 10	MC31: The Physics of Cuprates IX Room: Exchange 11		
12:30 PM - 2:00 PM	Lunch, Posters and Special Session Special Session: Physics Publishing presented by Sami Mitra (APS), Thomas Sharp (IOPP), Tom Spicer (Springer) Lunch and Posters - Room: Exchange Hall Special Session – Room: Exchange Auditorium				

2:00PM - 3:30 PM	MC38: Controlled irradiation Disorder in Model Systems: Organisation, Dynamics, and Transformations X	MC22: Nanoscale Fabrication of Superconducting Devices and Their Applications X	MC3: Tissue Dynamics: From in Vivo Experiments to in Silico Modelling X	MC17: Nanomechanical and Electromechanical Systems X	MC25: Emerging Trends in Many-Body Cavity Quantum Electrodynamics X
	Room: Exchange Auditorium	Room: Charter 1	Room: Charter 2	Room: Charter 3	Room: Charter 4
	MC8: Complex Phases in Soft Matter X	MC10: Nanodevice Iontronics X	MC9: Recent Developments in Gas Phase Synthesis of Nanoparticles and Applications X	MC42: Broken Ergodicity and Localisation in Quantum Many-Body Systems X	MC51: Ultrafast Dynamics in Magnetic and Strongly-Correlated Materials X
	Room: Exchange 1	Room: Exchange 3	Room: Exchange 4	Room: Exchange 6	Room: Exchange 7
	MC7: Exploring Liquid Properties in Confined Geometry (up to mesoscopic scales) X	MC39: LONE 2022 - Localized Nonlinear Excitations in Condensed Matter X	MC31: The Physics of Cuprates X		
	Room: Exchange 9	Room: Exchange 10	Room: Exchange 11		
3:30 PM - 4:30 PM	Afternoon Break and Posters Room: Exchange Hall				
4:30PM - 6:00 PM	MC38: Controlled irradiation Disorder in Model Systems: Organisation, Dynamics, and Transformations XI	MC22: Nanoscale Fabrication of Superconducting Devices and Their Applications XI	MC3: Tissue Dynamics: From in Vivo Experiments to in Silico Modelling XI	MC17: Nanomechanical and Electromechanical Systems XI	MC25: Emerging Trends in Many-Body Cavity Quantum Electrodynamics XI
	Room: Exchange Auditorium	Room: Charter 1	Room: Charter 2	Room: Charter 3	Room: Charter 4
	MC10: Nanodevice Iontronics XI	MC9: Recent Developments in Gas Phase Synthesis of Nanoparticles and Applications XI	MC51: Ultrafast Dynamics in Magnetic and Strongly-Correlated Materials XI	MC7: Exploring Liquid Properties in Confined Geometry (up to mesoscopic scales) XI	MC39: LONE 2022 - Localized Nonlinear Excitations in Condensed Matter XI
	Room: Exchange 3	Room: Exchange 4	Room: Exchange 7	Room: Exchange 9	Room: Exchange 10
	MC31: The Physics of Cuprates XI				
	Room: Exchange 11				

Friday 26 August 2022

9:00 AM – 10:00 AM	MC38: Controlled Irradiation Disorder in Model Systems, Organisation, Dynamics, and Transformations XII	MC22: Nanoscale Fabrication of Superconducting Devices and their Applications XII	MC3: Tissue Dynamics: From in Vivo Experiments to in Silico Modelling XII	MC24: Quantum Electronics at Ultra-low Temperatures XII	MC10: Nanodevice Iontronics XII
	Room: Exchange Auditorium	Room: Charter 1	Room: Charter 2	Room: Charter 3	Room: Exchange 3
	MC39: LONE 2022 - Localized Nonlinear Excitations in Condensed Matter XII	MC31: The Physics of Cuprates XII			
	Room: Exchange 9	Room: Exchange 11			
10:00 AM – 11:00 AM	Semi-plenary: Professor Rodrigo Martins	Semi-plenary: Professor Silke Bühler-Paschen	MC39: LONE 2022 - Localized Nonlinear Excitations in Condensed Matter XIII		
	Room: Exchange Auditorium	Room: Charter 1	Room: Exchange 9		
11:00 AM – 12:00 PM	Plenary: Professor Helen Gleeson				
	Room: Exchange Auditorium				
12:00 PM – 12:30 PM	<p style="text-align: center;">Closing Ceremony Room: Exchange Auditorium</p>				
12:30 PM – 1:30 PM	<p style="text-align: center;">Lunch and Departure Room: Exchange Hall</p>				