

MPhys Project allocation as at 11 September 2017
Sorted by **Student Surname**

ALLOCATED	Student Name	College	Project Title	Project Supervisor 1	Project Supervisor 2
AS15	Allison, Alexander	HTF	Comparing optical and infrared morphologies	Lintott, Dr Chris	
AS05	Au, Hubert	BAL	Black holes in gravity with a Higgs mechanism	Ferreira, Prof Pedro G	
PP06	Baker, Oliver	SPE	Studies of H->bb and the Higgs self coupling	Bortoletto, Prof Daniela	
TP1001	Beaney Colverd, Grace	QNS	Topics in Geometry and Gauge/String Theories	He, Prof Yang-Hui	
AS10	Beckett, Alexander	HTF	The cosmic star formation rate to high-redshifts from emission line galaxies	Bowler, Dr Rebecca	Jarvis, Dr Matt
CMP06	Bell, Joshua	CCC	The effect of applied strain on the magnetotransport behaviour in superconducting and Dirac materials	Coldea, Dr Amalia	
BIO09	Benson, Daniel	SCA	DNA Nanostructures	Turberfield, Prof Andrew	
A&L19	Berrisford, Leon	PBK	Ptychographic imaging with a visible laser	Hooker, Prof Simon	
INT05	Bevan, Simon	ORL	X-ray based tools for reading ancient texts	Karenowska, Dr Alexy	
TP1002	Bishop, Jem	ORL	Topics in Geometry and Gauge/String Theories	He, Prof Yang-Hui	
PP2303	Borne, James	SPE	Measurement of Higgs boson production in decays to W bosons	Hays, Dr Chris	
AS29	Braddy, Oliver	WAD	Measuring Galactic rotation with HI	Jones, Prof Mike	Taylor, Prof Angela
CMP14	Broad, William	WAD	Hexaferrite crystals: Candidate materials for future oxide electronics	Johnson, Dr Roger	
AS34	Browne, Oliver	KBL	Radio telescope receiver systems	Jones, Prof Mike	Taylor, Prof Angela
INT02	Bruce, James	CCC	An Electronics Project	Nickerson, Dr Richard	
INT12	Buckwell, Joseph	EXT	Very-high-energy gamma-ray astrophysics with the Cherenkov Telescope Array	Cotter, Dr Garret	
CMP0702	Bull, Kieran	SED	Fermi surface topography of iron-based superconductors	Coldea, Dr Amalia	
PP18	Chan, Hok Lun (Alan)	SED	Optimisation of algorithm for longitudinal profile	Konoplev, Dr Ivan	

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			image reconstruction of femtosecond electron bunches		
PP2101	Conn, Timothy	MAN	Search for neutrinoless double beta decay at SNO+	Biller, Prof Steven	Reichold, Dr Armin
CMP13	Dai, Xi	ORL	High power response in circuit quantum electrodynamics	Tancredi, Dr Giovanna	Leek, Dr Peter
AS40	Davies, Timothy	CCH	Seeing Star Forming Galaxies in 3D in an era when the Universe was most active	Bunker, Prof Andrew	
A&L07	Davy, Macauley	JES	Exclusion principle for hard-core bosons	Schilling, Dr Christian	Vedral, Prof Vlatko
A&L01	Dborin, James	SOM	Functional analysis of X-ray spectroscopy data using machine learning	Vinko, Dr Sam M	
INT08	De Fossard, Henry	MAG	Constructing a pulsed NMR spectrometer for hydrocarbon characterisation	Gregg, Prof John	
BIO06	Dolphin, Joseph	UNI	Super-resolution imaging of pathogenic microbes	Kapanidis, Dr Achillefs	
AO24	England, David	LIN	Retrieval of H ₂ SO ₄ from IASI measurements	Carboni, Dr Elisa	Grainger, Prof R Don
INT1701	Finnie, Evelyn	ORL	A census and calibration of nuclear radiation doses	Blundell, Prof Katherine	Wark, Prof Dave
TP12	Fraser, Jack	TRI	Chemistry and Dynamics of the Milky Way Disk	Schoenrich, Dr Ralph	
A&L0502	Garrick, David	WOR	The Zero Vector Potential Mechanism	Norreys, Prof Peter	
AS04	Gordon, Isobel	NEW	The mass dependence of radio-loud active galactic nuclei	Morabito, Dr Leah	Jarvis, Prof Matt
AO2101	Graham, Euan	WOR	Exploring interactions between climate change and economic growth	Allen, Prof Myles	
AS02	Gwyn Palmer, Xanthe	WAD	Dissecting galaxies using cosmic telescopes - strong gravitational lenses	Verma, Dr Aprajita	
CMP17	Hannaford, Elysia	JES	Simulations of Solid State Matter Compressed to Planetary Interior Conditions	Wark, Prof Justin	McGonegle, Dr David
CMP11	Hawes, Frank	TRI	Surface acoustic wave quantum devices on diamond	Leek, Dr Peter	
TP01	Hayer, Ravinder	SED	Dirac Equation and electrons in solids	Chalker, Prof John	
AO15	Heatley, James	WOR	Retrospective forecasts of winter and summer large-	Weisheimer, Dr Antje	Palmer, Prof Tim

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			scale circulation changes during the 20th Century		
AO07	Hertanto, Ray	TRI	Geophysical/atmospheric applications of new techniques for detecting bifurcations.	Pierrehumbert, Prof Raymond T	
INT10	Hill, Matthew	KBL	Gamma-ray and electron-positron production by electrons in intense laser fields	Bell, Prof Tony	
AS26	Hinds, Frederick	BNC	Origin of ultra-high energy cosmic rays	Alves Batista, Dr Rafael	
AS19	Howarth, Liam	PBK	Breaking the dark matter degeneracy using stellar proper motions	Cappellari, Prof Michele	
A&L17	Hynes, Michael	KBL	Complex temporal shaping and characterization of laser pulses for quantum memories	Brecht, Dr Benjamin	Walmsley, Prof Ian
INT01	Inch, Alexander	UNI	An Electronics Project	Nickerson, Dr Richard	
PP02	Jenkins, Stuart	WAD	Evaluation of HV-CMOS sensors	Bortoletto, Prof Daniela	
CMP16	Kanari-Naish, Lydia	ORL	Quantum properties of implanted muons in muonium states	Blundell, Prof Stephen	
BIO05	Kent, Amy	WOR	Biosensors for rapid detection of viruses	Kapanidis, Dr Achillefs	
AO18	King, Oliver	UNI	Understanding Heat flow around the Lunar surface	Warren, Dr Tristram	Bowles, Dr Neil
BIO03	Kmiecniak, Aleksandra	SHU	Structure/function studies of ion channels	Tucker, Dr Stephen	
PP09	Kreso, Dan	BNC	Constraints on Supersymmetric Dark Matter from recent LHC measurements	Barr, Prof Alan	
AO2102	Leach, Nicholas	LIN	Exploring interactions between climate change and economic growth	Allen, Prof Myles	
AO10	Lee, Han Seul (Genevieve)	CCH	A simple model of the Antarctic Circumpolar Current	Marshall, Prof David	
CMP10	Li, Zhiheng	LMH	Beyond Energy Harvesting: Metal Halide Perovskite Resistive Memories	Lin, Dr Yen-Hung	Snaith, Dr Henry
PP11	Li, Zhiyuan	MAN	Higgs Self-Coupling and Search for New Physics with di-Higgs to final states with the ATLAS detector	Issever, Prof Cigdem	
AO06	Long, Joshua	JES	Taking the rough with the smooth: understanding the	Wells, Dr Andrew	Toppaladoddi, Dr

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			effects of random rough boundaries on fluid flows		Srikanth
CMP15	Lu, Yang	MAN	Calculation of the magnetic properties of molecular magnets	Blundell, Prof Stephen	
CMP09	Marsell, Paul	CCC	Upscaling of evaporated perovskite solar cell	Herz, Prof Laura	Johnston, Dr Michael
TP02	Mclarty, Jack	SHI	Bouncing on superhydrophobic surfaces	Yeomans, Prof Julia	
AS3901	Mummery, Andrew	WAD	Tidal Force Project	Balbus, Prof Steve	
AO11	Munro, Thomas	SAN	Meteorological data and cosmic rays at Snowdon Summit	Aplin, Dr Karen	
AO09	Murray, Tobias	KBL	Patterns in melting permafrost: pathways to enhanced methane emissions?	Wells, Dr Andrew	
INT19	Ocampo, Jeremy	SJO	A Horn-Reflector Feed for Superconducting Detectors.	Yassin, Prof Ghassan	Tan, Dr Boon-Kok
CMP02	Oliver, Robert	CCC	Synthesis of Skyrmion-carrying thin films	Hesjedal, Dr Thorsten	Zhang, Dr Shilei
PP25	Ortiz, Joseph	CCH	Study of detectability of optical transients associated with gravitational wave events by LSST	Shipsey, Prof Ian	Marshall, Dr Phil
PP2102	Paton, Josephine	LMH	Search for neutrinoless double beta decay at SNO+	Biller, Prof Steven	Reichold, Dr Armin
BIO04	Pidgeon, James	SOM	A Method for the Recording and Analysis of Electrochemical Potentials and 'Bioelectricity'	Tucker, Dr Stephen	
AO23	Piggin, Benjamin	SHI	Correction for atmospheric delays in the Interferometric Synthetic Aperture Radar (InSAR) data processing	Novellino, Dr Alessandro	Wilson, Dr Colin
AS07	Pope, Charles	SHI	Characterising Asteroids with Spectroscopy on the PWT	Clarke, Dr Fraser	
A&L02	Rich, Caleb	MER	Designing bang-bang quantum control pulses with genetic algorithms	Jones, Prof Jonathan	
AS20	Riggs, Stephen	WOR	Intermediate-mass black holes with HARMONI	Magorrian, Dr John	
AS3902	Rose, Jordan	MAG	Tidal Force Project	Balbus, Prof Steve	
A&L0501	Ross, Aimee	SJO	The Zero Vector Potential Mechanism	Norreys, Prof Peter	
AO01	Ruxton, Andrew	SPE	Understanding the variability in the link between	Woollings, Dr Tim	Drouard,

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			atmospheric circulation patterns over the Pacific/North American and Euro-Atlantic regions		
INT06	Ryburn, Finlay	LMH	Portable Reflectance Transformation Imaging (RTI) apparatus for mapping the surface textures of ancient objects and inscriptions	Karenowska, Dr Alexy	
AO02	Saint, Cameron	SOM	Jet variability and the statistical moments of atmospheric flow	Woollings, Dr Tim	
AS35	Sale, Oliver	WAD	The Possibility of Planets Orbiting Post-Common Envelope Binaries	Clarke, Dr Fraser	Lynas-Gray, Dr Tony
AO20	Sandy, James	SHI	Signatures of Southern Hemisphere Natural Climate Variability.	Gray, Prof Lesley	
CMP18	Segal, Jack	SJO	Modelling the structural and magnetic diffraction pattern from layered materials	Johnson, Dr Roger	Coldea, Dr Radu
BIO08	Shen, Wuyi	HTF	Mechanical and transport properties of biomaterials for tissue engineering and 3D cell cultures	Contera, Dr Sonia	
AS33	Slijepcevic, Inigo Val	JES	Giant radio pulses from radio emitting neutron stars	Karastergiou, Dr Aris	
A&L09	Smith, Alistair	UNI	Developing a functional theory based on occupation numbers	Schilling, Dr Christian	
PP10	Smith, Oliver	SHU	Improved understanding of the structure of the proton using LHC data	Gwenlan, Dr Claire	
AO03	Stephenson, Peter	SCA	Idealized models of the dynamics of outgassed planetary atmospheres	Pierrehumbert, Prof Raymond T	
INT1702	Thomas, Huw	CCC	A census and calibration of nuclear radiation doses	Blundell, Prof Katherine	Wark, Prof Dave
AO08	Thrusell, Imogen	UNI	Understanding the Building Blocks of Primitive Asteroids	Donaldson Hanna, Dr Kerri	Bowles, Dr Neil
TP03	Tricker, James	CCH	Anyons and Topological Quantum Computing	Simon, Prof Steve	
A&L20	Ulatowski, Aleksander	SJO	Hyperfine Transitions in a Bose-Einstein Condensate	Foot, Prof Chris	

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BIO07	Vaughan, Rebecca	LIN	Physics of cryopreservation of cell membranes	Contera, Dr Sonia	
AS06	Walker, Alice	BNC	Detection of transiting exoplanets with K2 and TESS	Aigrain, Prof Suzanne	
AO22	Wallis, Timothy	NEW	Modeling the atmospheric Quasi-Biennial Oscillation in the laboratory	Read, Prof Peter	
BIO10	Welford, Joseph	QNS	DNA Nanostructures	Turberfield, Prof Andrew	
AO12	White, Jacob	MER	Laboratory studies of volcanic lightning on Venus and the early Earth	Aplin, Dr Karen	Airey, Dr Martin
INT16	White, Nadine	SED	Measuring Blood Flow Changes using Magnetic Resonance Imaging	Bulte, Dr Daniel	
INT18	Wigley, Adam	CCC	Ultra Sensitive Noise Temperature Measurement of a Superconducting Quantum Mixer	Yassin, Prof Ghassan	Tan, Dr Boon-Kok
CMP12	Wills, James	SCA	Multilayer coaxial superconducting circuits for quantum computing	Leek, Dr Peter	Tancredi, Dr Giovanna
PP1601	Wroe, Laurence	PBK	The Intense Beam Experiment (IBEX)	Sheehy, Dr Suzie	
A&L03	Yeo, Ray	QNS	Quantum information with photons	Thiel, Dr Valérian	Smith, Prof Brian
CMP20	Youren, James	PBK	Preparation and physical properties of a new candidate Weyl semi-metal	Prabhakaran, Dr Dharmalingam	Boothroyd, Prof Andrew
PP2301	Zajicek, Zachary	ORL	Using LHC measurements of precision ratios to search for new physics	Weidberg, Dr Tony	