

1st April 2015

Chairs: Prof. Alex Cunningham, Dr Gordon Robb, JA 5.05

Student	Project	Degree	Year	Time	Supervisors
Caitlin Firth	Intrinsic Fluorophores in Sensing Applications	BSc Hons Physics	4	1:00 – 1:15pm	Olaf Rolinski
Craig Murray	Unusual fluorescence decays	BSc Hons Physics	4	1:15 – 1:30pm	Olaf Rolinski
Scott Brown	Surface fluorescence	BSc Hons Physics	4	1:30 – 1:45pm	Jens Sutter
Callum Runciman	Noble Metal Quantum Dots	BSc Hons Physics	4	1:45 – 2:00pm	Yu Chen
Nathan Dalglish	Modelling of wettability of mineral surface by water and oil	BSc Hons Physics	4	2:15 – 2:30pm	Maxim Fedorov
Mark Governo	Predicting small molecule binding sites on protein surfaces	MPhys	4	2:30 – 2:45pm	Maxim Fedorov
Elaine Adair	A Physical Investigation of Protein-drug Binding	MPhys	4	2:45 – 3:00pm	Neil Hunt
Andrew Farrell	Uncovering the early stages of protein folding	MPhys	4	3:00 – 3:15pm	Neil Hunt
Christopher Campbell	Resonances in clouds of cold atoms	BSc Hons Physics	4	3:30 – 3:45pm	Francesco Papoff
Lucy Luecke	Parametric Oscillators	ERASMUS	4	3:45 – 4:00pm	Francesco Papoff
Ian Shanks	Surface Fields in Layered Nano Particles	BSc Hons Physics	4	4:00 – 4:15pm	Francesco Papoff
Matthew Brown	Computational modelling of X-ray Free electron Lasers	MPhys	4	4:15 – 4:30pm	Brian McNeil
Martyn Hunter	Resonant Electron Beam-light Interactions	MPhys	4	4:30 – 4:45pm	Brian McNeil
Scott Thomas	Computational modelling of X-ray Free electron Lasers	MPhys	4	4:45 – 5:00pm	Brian McNeil

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Chair: Prof. Adrian Cross, JA 5.02

Student	Project	Degree	Year	Time	Supervisors
Alan Brown	Modelling laser-driven plasma expansion and ion acceleration dynamics	MPhys	4	1:00 – 1:15pm	(Paul McKenna), Martin King
Jonathan Jarrett	Design study on plasma optics	MPhys	4	1:15 – 1:30pm	(Paul McKenna), Martin King
Weicheng He	Numerical simulation of high harmonics generation in laser interaction with dense plasma	BSc Hons Physics	4	1:30 – 1:45pm	Zheng-Ming Sheng
Madeleine Richards	Autocorrelation using a GaAsP Photodiode for Beam-driven Plasma Wakefield Acceleration	BSc Hons Physics	4	1:45 – 2:00pm	Bernhard Hidding
Andrew Beaton	Beam-driven Plasma Wakefield Acceleration (PWFA)	BSc Hons Physics	4	2:00 – 2:15pm	Bernhard Hidding
Gemma King	Medical Radio-isotope Production using a Laser-Plasma Wakefield Accelerator	MPhys	4	2:30 – 2:45pm	Mark Wiggins
Craig Murdoch	Phase-contrast X-ray imaging using an X-ray source based on a laser-plasma accelerator	MPhys	4	2:45 – 3:00pm	Silvia Cipiccia
Fraser Addies	Radiotherapy using Beams from Laser-plasma Accelerators	MPhys	4	3:00 – 3:15pm	Xue Yang
Adam Ross	Laser Wakefield Acceleration and Betatron Gamma Ray Radiation	MPhys	4	3:15 – 3:30pm	Ranaul Islam
Calum Bregazzi	Capillary Discharge Waveguides for Laser-Plasma Interactions	BSc Hons Physics	4	3:30 – 3:45pm	Mark Wiggins
Kyle Roulston	Electron Beam Transport and Diagnostics	MPhys	4	3:45 – 4:00pm	Enrico Brunetti
Alexandra Reid	High-Power Microwave Sources	MPhys	4	4:00 – 4:15pm	Phil MacInnes, Kevin Ronald