

Project Viva Timetable 2012

30th April 2012 - Chairman: Prof Erling Riis, JA 8.08

Student	Project	Degree	Year	Time	Supervisors
Martin Gorman	Energy Transfer as a Nanoscale Ruler	MSci Physics	5	9:00 – 9:45am	Yu Chen, Olaf Rolinski
David Whiteside	Portable Optical Instrumentation for Accurate Non-invasive Measurement and Quantification of Inflammation in Rheumatoid Arthritis	MSci Physics	5	9:45 – 10:30am	Gail McConnell, Owain Millington
Jonathan Lang	Sweep Frequency Microwave Pulse Compression using a Helically Corrugated Waveguide	MSci Physics	5	10:30 – 11:15am	Wenlong He, Kevin Ronald & Adrian Cross
	BREAK				
Stefan Celosia	BEC Simulations	MSci Physics	4	11:30 – 12:15pm	Gordon Robb, Aidan Arnold
Duncan McArthur	Complex Patterns in Media Displaying Electromagnetically Induced Transparency	MSci Physics	5	12:15 – 1:00pm	Gian-Luca Oppo, Gordon Robb
	LUNCH				
Jonathan Ward	Modelling the Electromagnetic Response of Nano and Micro Particles	MSci Physics	5	2:00 – 2:45pm	Francesco Papoff, Ben Hourahine
Sheena Barclay	A laser system for laser cooling of Rubidium atoms	MSci Physics	5	2:45 – 3:30pm	Erling Riis, Aidan Arnold, Thorsten Ackemann
	BREAK				
Billy Robertson	Bose-Einstein Condensate Experiments	MSci Applied Physics	5	3:45 – 4:30pm	Aidan Arnold, Erling Riis, Thorsten Ackemann

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Callum Muirhead	A Laser System for Laser Cooling of Rubidium Atoms	MSci Photonics	4	9:00 – 9:45am	Erling Riis, Aidan Arnold, Nigel Langford
Mark Brannan	A Laser System for Laser Cooling of RB	MSci Physics	4	9:45 – 10:30am	Stefan Kuhr, Erling Riis, Aidan Arnold
Steven Crossan	Set-up of tunable lasers for Rb spectroscopy	BSc Hons Physics	4	10:30 – 11:15am	Thorsten Ackemann, Aidan Arnold
	BREAK				
Mark McGhee	Control of a broad-area quantum-dot laser with frequency-selective feedback	MSci Applied Physics	5	11:30 – 12:15pm	Thorsten Ackemann, Erling Riis, Jon Pritchard

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Garry Cameron	Laser Pulse Amplification Through Stimulated Raman Backscattering in Plasma	MSci Physics	5	9:00 – 9:45am	Gregory Vieux, Dino Jaroszynski
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30th April 2012 - Chairman: Prof Kevin O'Donnell, JA 8.24

Amanda Goldie	Alloys & Renormalisation	BSc Hons Physics	4	9:00 – 9:45am	Ben Hourahine, Gian-Luca Oppo
Anthony D'Agostino	Electromagnetic Resonances in Nanoparticles	BSc Hons Physics	4	9:45 – 10:30am	Francesco Papoff, Ben Hourahine & Yu Chen
Rebecca Baxter	Intrinsic Fluorophores in Sensing Applications	BSc Hons Physics	4	10:30 – 11:15am	Olaf Rolinski, Yu Chen
	BREAK				
Kenneth Bell	Intrinsic Fluorophores in Sensing Applications	BSc Hons Physics	4	11:30 – 12:15pm	Olaf Rolinski, Yu Chen
Ben Russell	Energy Transfer as a Nanoscale ruler	MSci Physics	4	12:15 – 1:00pm	Yu Chen, Olaf Rolinski
	LUNCH				
Zetao Xu	Optical Properties of Nanoparticles	MSci Physics	4	2:00 – 2:45pm	Yu Chen, Olaf Rolinski
Kevin Connelly	Optical Colorimetry for Multiple Heavy Metal Detection	BSc Hons Physics	4	2:45 – 3:30pm	David Burns, John-Mark Hopkins

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Penny Mitchell	Semiconductor Doped Glasses	MSci Physics	4	9:00 – 9:45am	Thomas Han, Ivan Ruddock
Martin McGregor	Modelling the Interaction of Electron Beams with Semi Conductor Devices	MSci Physics	4	9:45 – 10:30am	Robert Martin, Paul Edwards
David Hamilton	Characterisation of Copper Gallium Diselenide Layers for Solar Cells	MSci Physics	4	10:30 – 11:15am	Robert Martin, Michael Yakushev
	BREAK				
Michael Gaughan	A Physical Investigation of Protein-Drug Binding	MSci Physics	4	11:30 – 12:15pm	Neil Hunt, Paul Hoskinsson
Gordon Hithell	The Physics of DNA	MSci Applied Physics	4	12:15 – 1:00pm	Neil Hunt, Glenn Burley

1st May 2012 - Chairman: Dr Adrian Cross, Col 3.20

Sophie Chirnside	Modelling Scattering of Light in the Sea	BSc Hons Physics	4	9:00 – 9:45am	David McKee, Alex Cunningham
Lorri Dell	Ocean Colour Radiometry – Data Processing and Image Interpretation	BSc Hons Physics	4	9:45 – 10:30am	Alex Cunningham, David McKee
Laura McLean	Resonant and non resonant optical cavities	BSc Hons Physics	4	10:30 – 11:15am	Nigel Langford, Geoff Duxbury
	BREAK				
Yuheng Li	Sweep Frequency Microwave Pulse Compression Using a Helically Corrugated Waveguide	MSci Physics	4	11:30 – 12:15pm	Kevin Ronald, Wenlong He
Jordan Grant	Laser-driven Ion Acceleration	BSc Hons Maths & Physics	4	12:15 – 1:00pm	Paul McKenna, David Carroll
	LUNCH				
Matthew Lees	Is Gravity a Gauge Theory?	BSc Hons Maths & Physics	4	2:00 – 2:45pm	Steve Barnett, Daniel Oi

2nd May 2012 - Chairman: Dr Adrian Cross, Col 3.20

Anthony McAuslan	Radiotherapy using Beams from Laser-plasma Accelerators	BSc Physics	4	9:00 – 9:45am	Dino Jaroszynski, Silvia Cippica
Hersimerjit Padda	Radiotherapy using Beams from Laser-plasma Accelerators	MSci Photonics	4	9:45 – 10:30am	Dino Jaroszynski, Silvia Cippica
Ben Snow	Radiation Reaction	BSc Hons Maths & Physics	4	10:30 – 11:15am	Dino Jaroszynski, Adam Noble
	BREAK				
John Warnock	Non-linear optics in plasma: Raman amplification and frequency mixing	BSc Hons Maths & Physics	4	11:30 – 12:15pm	Dino Jaroszynski, Bernhard Ersfeld
Robbie Wilson	Capillary Discharge Waveguides for Laser-Plasma Interactions	MSci Physics	4	12:15 – 1:00pm	Dino Jaroszynski, Mark Wiggins
	LUNCH				
Callum Nicol	Fluctuations and Noise in Free Electron Lasers	BSc Hons Physics	4	2:00 – 2:45pm	Francesco Papoff, Gordon Robb
Gavin Cheung	Modelling 4 th Generation Light Sources	MSci Physics	4	2:45 – 3:30pm	Brian McNeil, Gordon Robb