

# 1. Teaching Staff Duties 2010/2011

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## 1.1 Academic Staff 2010/2011

Prof P P Allport  
Dr S D Barrett  
Dr A J Boston  
Prof T J V Bowcock  
Dr S Burdin  
Prof P A Butler  
Dr M Chartier  
Prof S Chattopadhyay<sup>§</sup>  
Dr P R Cole  
Prof J B Dainton  
Dr V R Dhanak  
Dr J R Fry  
Prof T J Greenshaw  
Prof R-D Herzberg  
Dr K M Hock  
Prof W Hofer<sup>†</sup>  
Dr D E Hutchcroft  
Dr J N Jackson  
Dr D T Joss  
Prof M Klein  
Dr U Klein  
Prof C A Lucas  
Dr N McCauley  
Prof R N McGrath

Dr D S Martin  
Dr A Mehta  
Prof P J Nolan  
Prof R D Page  
Dr E S Paul  
Dr H R Sharma  
Dr T G Shears  
Prof C T Touramanis  
Dr J Vossebeld  
Prof P Weightman  
Dr C Welsch  
Dr A Wolski

### *Recognised University Teachers*

Dr L A Moran  
Dr P Rowlands  
Dr H C Boston

### *Advanced/Senior Research Fellows*

Dr J Coleman  
Dr B T King  
Dr M D'Onofrio

<sup>§</sup> Joint Liverpool/Lancashire/Manchester

<sup>†</sup> 50% Chemistry

## 1.2 Programme Directors 2010/2011

F300	Physics (3 year BSc)	Dr S D Barrett
F303	Physics (4 year MPhys)	Physics
F3F5	Physics with Astronomy (3 year BSc)	Dr S D Barrett
F521	Astrophysics (4 year MPhys)	Physics
F350	Physics with Medical Applications (3 year BSc)	Dr A J Boston
		Physics
F352	Physics for New Technology (3 year BSc)	Dr S D Barrett
		Physics
F390	Physics with Nuclear Science (3 year BSc)	Prof P J Nolan
		Physics
BCGO	Combined Honours (Science) (3 year BSc)	Dr K Johnson
		Faculty of Science
		Physics Representative
		Dr S D Barrett
		Physics
F326	Mathematical Physics (3 year BSc)	Dr P Rakow
FG31	Physics and Mathematics (3 year BSc)	Mathematical Sciences
FGH1	Mathematical Physics (4 year MMath)	
F344	Theoretical Physics (4 year MPhys)	
F308	Physical Sciences (with Foundation Year) at Carmel College	Prof R D Page
		Physics

### Postgraduate Taught Courses:

PPRA	MSc in Radiometrics: Instrumentation and Modelling	Prof P J Nolan
		Physics
PABI	MRes in Physical Analysis of Biological Interactions at Surfaces	Prof P Weightman
		Physics
PPCA	Certificate in Radioactive Waste Monitoring and Decommissioning	Prof P J Nolan
		Physics

### 1.3 Module Organisers and Contributors 2010/2011

Code	Credits	Sem.	Title	Organiser/Contributor
PHYS111	7.5	2	Practical Techniques in Physics	Dr N McCauley
PHYS113	7.5	1	Computing Techniques in Physics	Dr L A Moran
PHYS121	15	1	Mechanics	Prof R-D Herzberg
PHYS122	15	2	Introduction to Quantum Physics	Prof J B Dainton
PHYS123	15	1	Electricity and Magnetism	Prof T J Greenshaw
PHYS124	7.5	2	Thermal Physics	Dr D E Hutchcroft
PHYS125	7.5	1	Introduction to Relativity	Dr U Klein
PHYS126	7.5	2	Waves and Optics	Dr V R Dhanak
PHYS132	7.5	2	Physics of Materials	Dr S Burdin
PHYS134	7.5	2	Astronomy Fundamentals	Dr C J Simpson
PHYS136	7.5	2	Introduction to Medical Physics	Dr H C Boston
PHYS138	7.5	2	Introduction to Nuclear Science	Prof P J Nolan
PHYS241	7.5	2	Communicating Science	Dr L A Moran
PHYS243	15	1	Physics Toolbox	Prof R N McGrath / Dr T Mohaupt / Dr TJT Moore
PHYS246	15	2	Accelerators and Radioisotopes in Medicine	Prof R D Page
PHYS247	7.5	2	Programming Techniques in Physics, Astrophysics and Medical Physics	Dr A J Boston
PHYS248	15	2	Principles of Electronics	Dr S Burdin
PHYS251	15	2	Introduction to Stellar Astrophysics	Dr M J Darnley
PHYS252	15	2	Astronomical Techniques	Dr M J Darnley
PHYS253	15	1	Thermodynamics	Dr T G Shears
PHYS254	15	2	Electromagnetism	Prof C T Touramanis
PHYS255	15	1	Quantum and Atomic Physics	Dr E S Paul
PHYS256	15	2	Nuclei, Molecules and Solids	Dr A Mehta
PHYS258	15	1	Waves and Related Phenomena	Dr B T King
PHYS259	7.5	1	Practical Physics	Dr J R Fry
PHYS360	30	1&2	Physics for New Technology Project	Prof C A Lucas / Dr S D Barrett
PHYS361	15	1	Quantum Mechanics and Atomic Physics	Prof P P Allport
PHYS362	15	2	Advanced Observational Astronomy	Prof I Steele
PHYS363	7.5	1	Condensed Matter Physics	Prof C A Lucas
PHYS370	15	2	Advanced Electromagnetism	Dr A Wolski
PHYS373	15	1	Galaxies	Dr P A James
PHYS374	15	2	Relativity and Cosmology	Dr I Baldry
PHYS375	7.5	1	Nuclear Physics	Prof P J Nolan
PHYS377	7.5	2	Particle Physics	Prof M Klein
PHYS378	15	1	Advanced Practical Physics (BSc)	Dr D S Martin
PHYS379	15	2	Project (BSc)	Dr U Klein
PHYS381	7.5	2	Surface Physics	Dr H R Sharma
PHYS382	7.5	2	Physics of Life	Prof P Weightman
PHYS383	15	1	Further Stellar Astrophysics	Prof M Salaris
PHYS384	15	2	Radiation Therapy Applications	Dr C Baker / Dr A J Boston
PHYS386	15	2	Medical Physics Project	Dr U Klein
PHYS387	7.5	1	Materials Physics	Dr D S Martin
PHYS388	15	2	Physics of Energy Sources	Dr J N Jackson
PHYS389	7.5	1	Semiconductor Applications	Dr A J Boston
PHYS393	15	1	Statistical and Low Temperature Physics	Dr K M Hoek
PHYS394	15	3,1	Practical Astronomy	Dr M J Darnley
PHYS478	15	1	Advanced Practical Physics (MPhys)	Dr D S Martin
PHYS480	15	1	Advanced Quantum Physics	Prof P A Butler
PHYS481	7.5	1	Accelerator Physics	Dr C Welsch
PHYS488	15	2	Modelling Physical Phenomena	Dr J Vosseveld / Dr B T King

PHYS489	7.5	2	Condensed Matter Theory	Prof W Hofer / Prof M Persson
PHYS490	7.5	2	Advanced Nuclear Physics	Dr M Chartier
PHYS491	15	1	Research Skills	Dr T G Shears / Prof C Collins
PHYS493	7.5	2	Advanced Particle Physics	Prof T J V Bowcock
PHYS494	15	2	Computational Astrophysics	Dr S Kobayashi
PHYS495	15	1	The Interstellar Medium	Dr T J T Moore
PHYS496	15	1&2	Communication of Astrophysical Ideas	Prof D Carter
PHYS497	7.5	1	Magnetic Structure and Function	Prof W Hofer
PHYS498	30	1&2	Project (MPhys)	Prof C A Lucas / Dr SD Barrett
PHYS499	7.5	1	Nanoscale Physics and Technology	Dr V R Dhanak
<b>Other Teaching</b>				
CLIN331	7.5	2	Medical Imaging II	Dr P R Cole
PHYS137	7.5	1	Visual Optics 1	Dr N McCauley
PHYS237	7.5	2	Visual Optics 2	Prof T J V Bowcock
MATH171	7.5	1	Mathematics for Physics I	Math / Dr N McCauley
MATH172	7.5	2	Mathematics for Physics II	Math / Dr D T Joss

## 1.4 Academic Administrative Responsibilities 2010/2011

### Head of Department

**Prof R N McGrath**

### Deputy Head of Department

**Prof T J Greenshaw**

Departmental Safety Committee  
Freedom of Information Co-ordinator  
Juno Champion  
Radiation Protection Supervisor

Dr C Welsch  
Dr J Vossebeld  
Dr U Klein  
Dr J Vossebeld

### Director of Learning and Teaching

**Prof R-D Herzberg**

Teaching Resources Committee  
Timetabling Co-ordinator  
Handbooks (Student, Staff) Editor  
Projects Coordination Group

Prof R-D Herzberg  
Prof C A Lucas / Prof R D Page  
Dr K M Hock  
Prof R-D Herzberg, Prof C A Lucas,  
Dr U Klein, Dr S Kobayashi  
Dr C Welsch  
Dr S D Barrett  
Dr L A Moran  
Dr S Burdin  
Dr N McCauley  
Prof R-D Herzberg  
Dr H C Boston

Lecturer Mentoring Co-ordinator  
Liaison JMU  
Educational Opportunities  
E-learning Coordinator  
Disability Co-ordinator  
Deputy Disability Coordinator  
NSS Contact

### Director of Research

**Prof P A Butler**

RAE/REF Co-ordinator  
Fröhlich Lectures

Prof M Klein  
Prof P Weightman, Prof J B Dainton,  
Prof P J Nolan

### Director of Undergraduate Studies

**Dr S D Barrett**

BOSIP – Chair  
Secretary

Dr S D Barrett  
*TBA*

#### Year Co-ordinators

Year 1  
Year 2  
Years 3 and 4

Dr E S Paul  
Dr T G Shears  
Dr J Vossebeld

Freshers' Conference  
Student-Staff Committee Co-ordinator  
European Liaison

Dr S D Barrett  
Prof R D Page  
Prof T J V Bowcock

#### Examinations

Assessment Officer  
Year 1  
Year 2  
Year 3  
Year 4  
Summer Placement Co-ordinator  
Carmel College Liaison  
China Liaison

Dr A Mehta  
Dr D S Martin  
Dr J Vossebeld  
Dr A Wolski  
Prof P A Butler  
Prof T J V Bowcock  
Prof R D Page  
Dr K M Hock

**Director of Postgraduate Research**

Deputy Director PGR (HEP)  
Deputy Director PGR (NP)  
Deputy Director PGR (CMP)  
Deputy Director PGR (AS)  
Postgraduate Teaching Assistants,  
Training & Contracts

**Dr D T Joss**

Dr S Burdin  
Dr M Chartier  
Dr H R Sharma  
Dr A Wolski  
Prof T J Greenshaw

**Director of Admissions and Outreach**

Undergraduate Admissions Tutor  
Undergraduate Admissions (Deputy)  
Schools Liaison  
Public Understanding

**Prof P J Nolan**

Dr D E Hutchcroft  
Dr D T Joss  
Dr L A Moran  
Dr T G Shears

**Director of Communications**

Departmental Website  
Information Services (Computing)  
Information Services (Library)

**Prof T J Greenshaw**

Dr E S Paul  
Dr A J Boston  
Dr V R Dhanak

**Director of Knowledge Exchange and CPD**

**Dr A J Boston**

**Director of Postgraduate Taught Courses**

**Prof P J Nolan**

**School of Physical Sciences**

**Research coordinator**

**Prof P P Allport**

**PGR coordinator**

**Dr D T Joss**

## 1.5 Tutorials 2010/2011

All staff are expected to participate in the tutorials. The distribution will be done according to student load in the years.

## 1.6 Demonstrating 2010/2011

### Year 1 (PHYS111: Semester 2)

Dr N McCauley (*Organiser*)  
Dr J Vosseveld (*Deputy Organiser*)  
Dr K M Hock  
Dr D T Joss

### Year 2 (PHYS259: Semester 1)

Dr J R Fry (*Organiser*)  
Prof C A Lucas (*Deputy Organiser*)  
Dr L A Moran  
Dr C Welsch  
Dr E S Paul  
Dr V R Dhanak  
Dr B T King

### Year 2 (PHYS248: Semester 2, Weeks 6-10)

Dr S Burdin (*Organiser*)  
Dr A Wolski  
Dr L A Moran

### Year 3 (PHYS378: Semester 1)

Dr D S Martin (*Organiser*)  
Dr A Mehta  
Prof P J Nolan / Prof R-D Herzberg  
Dr P Rowlands

### Other

PHYS137 (Semester 1) – Dr N McCauley  
PHYS113 (Semester 1) – Dr L A Moran  
PHYS125 (Semester 1) – Dr U Klein  
PHYS237 (Semester 2) – Prof T J V Bowcock  
PHYS252 (Semester 1) – Dr T J T Moore / Dr M J Darnley  
PHYS258 (Semester 1) – Dr B T King

## 1.7 Lecture Moderators 2010/2011

<b>Code</b>	<b>Sem/Wk</b>	<b>Title</b>	<b>Organiser/Contributor</b>	<b>Moderator</b>
PHYS111	2	Practical Techniques in Physics	Dr N McCauley	Dr D S Martin
PHYS113	1	Computing Techniques in Physics	Dr L A Moran	Prof R D Page
PHYS121	1	Mechanics	Prof R-D Herzberg	Prof T J Greenshaw
PHYS122	2	Introduction to Quantum Physics	Prof J B Dainton	Prof P A Butler
PHYS123	1	Electricity and Magnetism	Prof T J Greenshaw	Dr A Wolski
PHYS124	2(W1-6)	Thermal Physics	Dr D E Hutchcroft	Dr T G Shears
PHYS125	1	Introduction to Relativity	Dr U Klein	Prof P J Nolan
PHYS126	2(W7-12)	Waves and Optics	Dr V R Dhanak	Dr S D Barrett
PHYS132	2(W7-12)	Physics of Materials	Dr S Burdin	Dr E S Paul
PHYS134	2(W1-6)	Astronomy Fundamentals	Dr C J Simpson	Dr P A James
PHYS136	2	Introduction to Medical Physics	Dr H C Boston	Prof P J Nolan
PHYS138	2(W7-12)	Introduction to Nuclear Science	Prof P J Nolan	TBA
PHYS241	2	Communicating Science	Dr L A Moran	Dr H C Boston
PHYS243	1	Physics Toolbox	Prof R N McGrath / Dr T Mohaupt / Dr TJT Moore	Dr D T Joss
PHYS246	2	Accel. and Radioisotopes in Medicine	Prof R D Page	Dr H C Boston
PHYS247	2	Programming Techniques in Physics, Astrophysics and Medical Physics	Dr A J Boston	Dr J Vosseveld
PHYS248	2	Principles of Electronics	Dr S Burdin	Dr C Welsch
PHYS251	2	Introduction to Stellar Astrophysics	Dr M J Darnley	Dr T J T Moore
PHYS252	2	Astronomical Techniques	Dr M J Darnley	Dr C J Simpson
PHYS253	1	Thermodynamics	Dr T G Shears	Dr L A Moran
PHYS254	2	Electromagnetism	Prof C T Touramanis	Prof T J Greenshaw
PHYS255	1	Quantum and Atomic Physics	Dr E S Paul	Prof M Klein
PHYS256	2	Nuclei, Molecules and Solids	Dr A Mehta	Prof J B Dainton
PHYS258	1	Waves and Related Phenomena	Dr B T King	Dr S D Barrett
PHYS259	1	Practical Physics	Dr J R Fry	Dr D S Martin
PHYS360	1&2	Physics for New Technology Project	Prof C A Lucas / Dr SD Barrett	Dr U Klein
PHYS361	1	Quantum Mechanics and Atomic Physics	Prof P P Allport	Dr A Mehta
PHYS362	2	Advanced Observational Astronomy	Prof I Steele	Dr I Baldry
PHYS363	1(W1-6)	Condensed Matter Physics	Prof C A Lucas	Prof W Hofer <sup>†</sup>
PHYS370	2	Advanced Electromagnetism	Dr A Wolski	Prof R-D Herzberg
PHYS373	1	Galaxies	Dr P A James	Dr M Salaris
PHYS374	2	Relativity and Cosmology	Dr I Baldry	Prof D Carter
PHYS375	1(W7-12)	Nuclear Physics	Prof P J Nolan	Dr A J Boston
PHYS377	2(W7-12)	Particle Physics	Prof M Klein	Prof P P Allport
PHYS378	1	Advanced Practical Physics (BSc)	Dr D S Martin	Dr D E Hutchcroft
PHYS379	2	Project (BSc)	Dr U Klein	Prof C A Lucas
PHYS381	2(W7-12)	Surface Physics	Dr H R Sharma	Prof P Weightman
PHYS382	2(W1-6)	Physics of Life	Prof P Weightman	Dr H R Sharma
PHYS383	1	Further Stellar Astrophysics	Prof M Salaris	Dr M J Darnley
PHYS384	2	Radiation Therapy Applications	Dr C Baker / Dr A J Boston	Dr P R Cole
PHYS386	2	Medical Physics Project	Dr U Klein	Prof C A Lucas
PHYS387	1(W1-6)	Materials Physics	Dr D S Martin	Prof P Weightman
PHYS388	2	Physics of Energy Sources	Dr J N Jackson	Dr E S Paul
PHYS389	1(W7-12)	Semiconductor Applications	Dr A J Boston	Prof P J Nolan
PHYS393	1	Statistical and Low Temperature Physics	Dr K M Hock	Dr S Burdin
PHYS394	3,1	Practical Astronomy	Dr M J Darnley	Prof C A Lucas
PHYS478	1	Advanced Practical Physics (MPhys)	Dr D S Martin	Dr D E Hutchcroft



PHYS480	1	Advanced Quantum Physics	Prof P A Butler	Prof T J V Bowcock
PHYS481	1(W7-12)	Accelerator Physics	Dr C Welsch	Dr K M Hock
PHYS488	2	Modelling Physical Phenomena	Dr J Vossebeld / Dr B T King	Dr A J Boston
PHYS489	2(W7-12)	Condensed Matter Theory	Prof W Hofer / Prof M Persson	Prof R N McGrath
PHYS490	2(W1-6)	Advanced Nuclear Physics	Dr M Chartier	Prof R D Page
PHYS491	1	Research Skills	Dr T Shears / Prof C Collins	Prof M Klein
PHYS493	2(W7-12)	Advanced Particle Physics	Prof T J V Bowcock	Dr D E Hutchcroft
PHYS494	2	Computational Astrophysics	Dr S Kobayashi	Dr I Baldry
PHYS495	1	The Interstellar Medium	Dr T J T Moore	Dr C J Simpson
PHYS496	1&2	Communication of Astrophysical Ideas	Prof D Carter	Dr S Kobayashi
PHYS497	1(W1-6)	Magnetic Structure and Function	Prof W Hofer	Dr H R Sharma
PHYS498	1&2	Project (MPhys)	Prof C A Lucas / Dr S D Barrett	Dr U Klein
PHYS499	1(W7-12)	Nanoscale Physics and Technology	Dr V R Dhanak	Prof W Hofer <sup>†</sup>
<b>Other Teaching</b>				
CLIN331	2	Medical Imaging II	Dr P R Cole	Dr A J Boston
PHYS137	1	Visual Optics 1	Dr N McCauley	Dr S D Barrett
PHYS237	2	Visual Optics 2	Prof T J V Bowcock	Prof P P Allport
MATH171	1	Mathematics for Physics I	Dr N McCauley	Dr D T Joss
MATH172	2	Mathematics for Physics II	Dr D T Joss	Prof R-D Herzberg

## 1.8 Lecture Monitors 2010/2011

<b>Code</b>	<b>Sem/Wk</b>	<b>Title</b>	<b>Organiser/Contributor</b>	<b>Monitor</b>
PHYS113	1	Computing Techniques in Physics	Dr L A Moran	Dr J Vossebeld
PHYS121	1	Mechanics	Prof R-D Herzberg	Dr D S Martin
PHYS122	2	Introduction to Quantum Physics	Prof J B Dainton	Dr S D Barrett
PHYS123	1	Electricity and Magnetism	Prof T J Greenshaw	Dr A J Boston
PHYS124	2(W1-6)	Thermal Physics	Dr D E Hutchcroft	Dr L A Moran
PHYS125	1	Introduction to Relativity	Dr U Klein	Dr D E Hutchcroft
PHYS126	2(W7-12)	Waves and Optics	Dr V R Dhanak	Dr H R Sharma
PHYS132	2(W7-12)	Physics of Materials	Dr S Burdin	Dr U Klein
PHYS134	2(W1-6)	Astronomy Fundamentals	Dr C J Simpson	Dr I Baldry
PHYS136	2	Introduction to Medical Physics	Dr H C Boston	Prof P Weightman
PHYS138	2(W7-12)	Introduction to Nuclear Science	Prof P J Nolan	Dr J Coleman
PHYS241	2	Communicating Science	Dr L A Moran	Dr C Welsch
PHYS243	1	Physics Toolbox	Prof R N McGrath / Dr T Mohaupt / Dr TJT Moore	Prof T J Greenshaw
PHYS246	2	Accelerators and Radioisotopes in Medicine	Prof R D Page	Dr T G Shears
PHYS248	2	Principles of Electronics	Dr S Burdin	Prof P Weightman
PHYS251	2	Introduction to Stellar Astrophysics	Dr M J Darnley	Dr C J Simpson
PHYS252	2	Astronomical Techniques	Dr M J Darnley	Dr S Kobayashi
PHYS253	1	Thermodynamics	Dr T G Shears	Dr S D Barrett
PHYS254	2	Electromagnetism	Prof C T Touramanis	Dr A Wolski
PHYS255	1	Quantum and Atomic Physics	Dr E S Paul	Prof M Klein
PHYS256	2	Nuclei, Molecules and Solids	Dr A Mehta	Dr M Salaris
PHYS258	1	Waves and Related Phenomena	Dr B T King	Prof R-D Herzberg
PHYS361	1	Quantum Mechanics and Atomic Physics	Prof P P Allport	Prof P J Nolan
PHYS362	2	Advanced Observational Astronomy	Prof I Steele	Dr M J Darnley
PHYS363	1(W1-6)	Condensed Matter Physics	Prof C A Lucas	Dr P A James
PHYS370	2	Advanced Electromagnetism	Dr A Wolski	Dr M D'Onofrio
PHYS373	1	Galaxies	Dr P A James	Dr S Burdin
PHYS374	2	Relativity and Cosmology	Dr I Baldry	Prof W Hofer
PHYS375	1(W7-12)	Nuclear Physics	Prof P J Nolan	Dr S Burdin
PHYS377	2(W7-12)	Particle Physics	Prof M Klein	Dr J Vossebeld
PHYS381	2(W7-12)	Surface Physics	Dr H R Sharma	Prof P P Allport
PHYS382	2(W1-6)	Physics of Life	Prof P Weightman	Dr D T Joss
PHYS383	1	Further Stellar Astrophysics	Prof M Salaris	Dr M J Darnley
PHYS384	2	Radiation Therapy Applications	Dr C Baker / Dr A J Boston	Dr D T Joss
PHYS387	1(W1-6)	Materials Physics	Dr D S Martin	Dr V R Dhanak
PHYS388	2	Physics of Energy Sources	Dr J N Jackson	Dr C Welsch
PHYS389	1(W7-12)	Semiconductor Applications	Dr A J Boston	Dr A Wolski
PHYS393	1	Statistical and Low Temperature Physics	Dr K M Hock	Dr T G Shears
PHYS480	1	Advanced Quantum Physics	Prof P A Butler	Prof J B Dainton
PHYS488	2	Modelling Physical Phenomena	Dr J Vossebeld / Dr B T King	Dr L A Moran
PHYS489	2(W7-12)	Condensed Matter Theory	Prof W Hofer / Prof M Persson	Prof R-D Herzberg
PHYS490	2(W1-6)	Advanced Nuclear Physics	Dr M Chartier	Prof R D Page
PHYS493	2(W7-12)	Advanced Particle Physics	Prof T J V Bowcock	Prof T J Greenshaw
PHYS494	2	Computational Astrophysics	Dr S Kobayashi	Dr T J T Moore
PHYS495	1	The Interstellar Medium	Dr T J T Moore	Prof D Carter
PHYS496	1&2	Communication of Astrophysical Ideas	Prof D Carter	Dr M Chartier
PHYS497	1(W1-6)	Magnetic Structure and Function	Prof W Hofer	Prof T J V Bowcock
PHYS499	1(W7-12)	Nanoscale Physics and Technology	Dr V R Dhanak	Prof R N McGrath

**Other  
Teaching**

CLIN331	2	Medical Imaging II	Dr P R Cole	Dr N McCauley
PHYS137	1	Visual Optics 1	Dr N McCauley	Prof T J V Bowcock
PHYS237	2	Visual Optics 2	Prof T J V Bowcock	Dr D S Martin
MATH171	1	Mathematics for Physics I	Math / Dr N McCauley	Dr T G Shears
MATH172	2	Mathematics for Physics II	Math / Dr D T Joss	Dr A Mehta

## 1.9 Boards of Examiners 2010/2011

### *Undergraduate BSc and MPhys Physics Programmes and Modules*

Head of Department (Chair)	Prof R N McGrath
External Examiner for Physics	<i>TBA</i>
External Examiner for Astrophysics	Dr R F Jameson
Programme Director of Studies for F300 and F303	Dr S D Barrett
Programme Director of Studies for F3F5 and F521	Dr S D Barrett
Programme Director of Studies for F350	Dr A J Boston
Programme Director of Studies for F352	Dr S D Barrett
Programme Director of Studies for F390	Prof P J Nolan
Representative for LJMU Astrophysics Teaching	Dr T J Moore
Chair of BOSIP	Dr S D Barrett
Director of Teaching	Prof R-D Herzberg
Year 1 Co-ordinator	Dr E S Paul
Year 2 Co-ordinator	Dr T G Shears
Years 3 and 4 Co-ordinator	Dr J Vosseveld
Examinations Co-ordinator (Secretary)	Dr A Mehta

### *MSc Radiometrics*

Programme Director of Studies (Chair/Secretary)	Prof P J Nolan
External Examiner	Dr R Wadsworth
Programme Module Organisers	

### *MRes Physical Analysis of Biological Interactions at Surfaces*

Programme Director of Studies (Chair/Secretary)	Prof P Weightman
External Examiner	Prof A S G Curtis
Programme Module Organisers	