## **Research and Knowledge Exchange Committee**

## **Report on School Activity**

## Period: 1<sup>st</sup> March 2013 to 31<sup>st</sup> May 2014

MPS

Wilkins,

Stephen

Tang, Qi

During,

Bertram

During,

Bertram

Sebastian J

Sargent, Mark

School:

Research related appointment s (promotions as of 20 <sup>th</sup> May 2014):	Eberlein, Claud Grant, Jacqueli Hurley, Peter D Iliev, Ilian T Jaeger, Sebast	ne FELLOW RESEARCH FELLOW READER	15/0: 01/0: 10/0:	4/2014 5/2014 4/2014 4/2014 5/2014
Key research grants	Principal Investigator	Project Title	Principal Funder	Awarded Amount
received:	Lewis, Antony M	Precision cosmological parameters : CosmoPars	EU	£985,423
	Porras, Diego	New Frontiers in Quantum Simulation: NewFQS	EU	£70,676
	Peccianti, Marco	Route to guided TeraHertz backscattering Inspection and Analysis: THEIA	EU	£70,676
	Verdu Galiana, Jose L	The Geonium Chrip: A revolutionary high-end mass spectrometer	UNIVERSITY OF SUSSEX	£17,757
	De Santo, Antonella	STFC Consolidated Grant Supplement	STFC	£9,461
	Tang, Qi	Return on investment projection in an IT advertising environment	OBAN MULTILINGUAL	£2,287
	Loveday, Jonathan N	Host Galaxies of Active Galactic Nuclei - Ben Thomas	RAS	£1,200
	Oliver,	Removal of foreground	RAS	£1,200

cirrus emission from

- Daniel Callahan

Herschel extragalactic maps

Empirical predictions of the

HI-content of star-forming galaxies-Ciaran Fairhurst Fishing for EELs at high

redshift- Jonathan Manuel

purchase preferences online Discrete entropy dissipation

Gradient Flows: from theory

to application (Workshop)

Analysing survey data

methods for nonlinear

diffusion equations

relating to computer

RAS

RAS

OBAN

LONDON

SOCIETY

MULTILINGUAL

**MATHEMATICAL** 

UNIVERSITY OF

**EDINBURGH** 

£1,200

£1,200

£1,000

£870

£0

		Т	otal (£):	£1,162,950
Applications for funding:			Principa Funder	Applied Amount
			EPSRC	£3,746,898
	Garraway, Barry	Quantum Technology Hub for Sensors and Metrology	EPSRC	£2,598,484
	Hensinger, Winfried K	IMITQI- Industrial Microwave Ion Trap Quantum Computer Demonstrator Device	EU	£1,876,704
	Peeters, Simon J	NeutrinoFuture - Unravelling the fundamental nature of the neutrino: towards the future of neutrinoless double-beta decay	EU	£1,369,015
	Peccianti, Marco	TIMING - Time-Resolved Nonlinear Ghost Imaging	EU	£1,329,850
	Banfi, Andrea	JET-TH: Theory and phenomenology of hadronic jets in Quantum Chrome-Dynamics	EU	£1,284,794
	Kiss, Istvan Z	Next generation of complex networks: from modelling and analysis to control	EU	£1,170,621
	Chlebik, EVOSEX: Sexual reproduction and its maintenance in eukaryotes - LARISSA CONRADT		EU	£1,058,537
	Keller, Matthias	Institute for Quantum Measurement and Timing	EPSRC	£998,583
	Cagnetti, Filippo	Rigidity and Stability in Geometric Variational Problems	EU	£823,160
	Porras, Diego	Non-Equilibrium Quantum Simulations with Trapped Ions	EU	£648,710
	Makridakis, Charalambos	Modelling and Computation for Shocks and Interfaces	EU	£538,242
	Keller, Matthias	Hybrid Quantum Networks	EPSRC	£452,981
	Madzvamuse, Anotida	Research Training Network on Integrated Component Cycling in Epithelial Cell Motility	EU	£376,534
	Garraway, Barry M	LIMQUET (Light-Matter Interfaces for Quantum Enhanced Technology ) Univeristy Bourgogne Lead	EU	£362,743
	Oliver, Sebastian J	Newborn and antenatal screening strategies for cystic fibrosis (CF); Evaluating Validity and Effectiveness	EU	£362,260
	Blyuss, Konstantin	A mathematical systems approach to the dynamics of chronic immune responses	BBSRC	£291,476
	Calmet, Xavier	Interferometers: From the Planck scale to Astrophysics	EU	£273,350
	Lakkis, Omar	Computer Aided Flood-Risk Assessment Using Stochastic Shallow Water Equations	EPSRC	£271,962
	During, Bertram	Novel discretisations of higher- order nonlinear PDE	LEVERHUL	.ME £249,257

Michael and inverse scattering for Quantum Hamiltonians  Cerri, Case for STFC Teaching STFC E176,736  Alessandro Buyout LBNE and the Fermilab Liquid Argon Detector Programme - Cambridge lead Argon Detector Programme - Cambridge lead Quantum Hamiltonians  Garraway, Barry An atom-chip ring gyro - (dstl UKI-Fr studentship)  Oliver, Students, Astronomy, and Research: Widening Access for Young People STARWAY  Hensinger, Microchip architectures for portable N-ion sensors and clocks  Zarnescu, Arghir Desting unexplored theories of the early universe Styles, Vanesa Novel mathematics for understanding growth, motion and patterning in biology.  Garraway, Barry Theory towards an atom-chip ring gyro - DSTL studentship  Porras, Diego Quantum simulators for precise time sensing and magnetometry - DSTL studentship  Keller, Matthias Devpt of compact atomic clock system based on calcium ions - DSTL studentship  Wilkins, Stephen Astronomy for Early Years STFC £56,864  Potter, Christina Searching for Supersymmetry at ATLAS  Sargent, Mark Developing a new methodology for 3D modelling of complex interstellar environments  Thomas, Peter A Cosmological Simulations ITN - Durham lead  Tang, Qi Return on investment projection in an IT advertising environment  Seargent, Mark Empirical predictions of the Hillocontent of Star-forming galaxies-Claran Fairhurst  Wilkins, Stephen Fishing for EELs at high research preferences online environment Fishing GNAN E1,200  Tang, Qi Analysing survey data relating to computer purchase preferences online environment Chapter purchase preferences online	Melgaard,	Resonances, trace formulas	LEVERHULME	£242,501
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Alessandro   Buyout   LBNE and the Fermilab Liquid   J   Argon Detector Programme - Cambridge lead   Garraway, Barry   Wiki-Fr studentship   Oliver, Students, Astronomy, and Research: Widening Access for Young People STARWAY   Hensinger, Winfried K   portable N-ion sensors and clocks   Zarnescu, Arghir   Mathematics and Statistics   LEVERHULME   £100,000   £27,000   £27,000   £27,000   £27,434   £27,4	Cerri.	Case for STFC Teaching	STFC	£219.595
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Oliver, Sebastian J   Students, Astronomy, and Research: Widening Access for Young People STARWAY	Garraway, Barry	An atom-chip ring gyro - (dstl	DSTL	£153,726
Research: Widening Access for Young People STARWAY		1 /		
Young People STARWAY			EU	£129,433
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Wilkins, Stephen Fishing for EELs at high redshift- Jonathan Manuel  Loveday, Host Galaxies of Active Galactic Nuclei - Ben Thomas  Tang, Qi Analysing survey data relating to computer purchase  RAS £1,200  £1,200  CBAN £1,000				
redshift- Jonathan Manuel  Loveday, Jonathan N  Galactic Nuclei - Ben Thomas  Tang, Qi  Analysing survey data relating to computer purchase  RAS £1,200  £1,000	NACILLA CA		D4.0	04.555
Loveday, Jonathan N  Galactic Nuclei - Ben Thomas  Tang, Qi  Analysing survey data relating to computer purchase  RAS  £1,200  CBAN  £1,000	Wilkins, Stephen		RAS	£1,200
Jonathan N     Galactic Nuclei - Ben Thomas       Tang, Qi     Analysing survey data relating to computer purchase     OBAN     £1,000	Lovodov		DAC	£1 200
Tang, Qi Analysing survey data relating OBAN £1,000 to computer purchase			IVAS	£1,∠00
to computer purchase			OBAN	£1 000
	, a.i.g, a.i		327.11	21,000

	During Portrom	Acces Bortner 4 STRIKE		EII		c
	During, Bertram	Assoc Partner 4 STRIKE - Novel methods in		EU		£-
		computational finance				
	During, Bertram	Gradient Flows: from theory to	2	U. OF		£-
	] =	application (Workshop)		EDINBURGH		~
	Scalas, Enrico	Complexity and EconoPhysics	s -	LE STUDIUM		£-
		Universite d'Orleans lead				
	Iliev, Ilian T	Multi-scale simulations of		PRACE		£-
		Cosmic Reionization				
			Tot	al (£):	£21	,722,005
Awards and	Joe Elliston (Rese	earch Fellow) won the Royal	Ast	ronomic	al Soc	iety thesis
recognitions:	· ·	etails of which may be found				_
	•	g.uk/awards-and-grants/awa				
	thesis-prize	<del>,</del>			<u> </u>	<u> </u>
	<u></u>					
	Mariapia Palomba	aro invited speaker at				
	•	Differential Equations and (	Calc	ulus of \	/ariati	ons
		Oxford on 6-8 March.	<b>.</b>			
	Prof. Mark Hindmarsh Appointment to Visiting Professor at University of					
	Helsinki (20% FTE) from June 1st 2014 - May 31st 2019.					
Areas of		activity in both departments			Tables	to be
Knowledge	attached.			.,		
Exchange:						
	STFC Innovations Partnership Fellowship Award successful. This is a project					
	co-funded by STFC, SEPNET, Susssex (MPS) and Portsmouth and funds a					
	"fellow" to engage our (STFC related) research with business. Plans to					
	supplement this with additional funding to make a full post at Sussex and to					
	support all MPS research.					
Key activities	3 Quantum Technology bids (listed in applications above) have progressed					
(not covered	from outline bid to full bid (due June '14)					
above):	The salate of the order of the salate of the					
,	1 Leverhulme Trust Project Grant (PI Giesel), progressed from outline					
	proposal to full bid (submitted March '14)					
	Note that some of bids/awards above include non-cash resources, e.g.					
	extensive computer time					
	Annual MPS postgraduate research conference					
	http://www.sussex.ac.uk/mps/conf2014/					
	A CLAUSE CONTRACTOR OF CONTRAC					
	Articles listed in SRO (as of 14 <sup>th</sup> May 2014)					
	2091 articles in total					
	127 articles for 2012					
	94 articles for 2013					
	21 articles for 2014					
	18 articles added	18 articles added in last quarter (March '14-May '14)				

Name:	Seb Oliver	School:	MPS
		Date:	2nd June 2014