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You are viewing our public content search this site You can sign in or register for additional services for your query... Go Clear News Recent news... Print this page>>> 15 May 2008 10:35 Search for Press Local 16 May Releases 2008 11:47 Science & Technology authorities to get Search By Organisation **Facilities Council** helping hand to provide extra support for children in care Astronomers find that Universe shines twice 16 May 1ob 2008 11:07 as bright Opportunities business services **Programme Managers** Astronomers from UK Universities working with colleagues from Germany and Australia have calculated that the Universe is 16 May 2008 11:01 actually twice as bright as previously thought. In the latest Astrophysical Journal Letters (10th May), the astronomers Independent Public Sector Safeguarding Authority (ISA) board members describe how dust is obscuring approximately half of the light that the Universe is currently generating. **Discount** Card announced Lead author Dr Simon Driver from the University of St Andrews 16 May Chief from Comet said, "For nearly two decades we've argued about whether the 2008 10:49 light that we see from distant galaxies tells the whole story or Executive's report **Business Services** not. It doesn't; in fact only half the energy produced by stars confirms the NHS is actually reaches our telescopes directly, the rest is blocked by fighting fit in 60th year dust grains. 16 May 2008 10:47 While astronomers have known for some time that the Universe **Reviewing Rural** Public Sector Discount Card contains small grains of dust, they had not realised the extent to which this is restricting the amount of light that we can see. The Proofing 000000 00 000000 01 dust absorbs starlight and re-emits it, making it glow. They knew that existing models were flawed, because the energy output 16 May COALEY' Millions 2008 10:46 of savers from glowing dust appeared to be greater than the total energy to benefit from produced by the stars! auto-enrolment into workplace schemes Dr Driver said, "You can't get more energy out than you put in so we knew something was very wrong. Even so, the scale of the The 16 May 2008 10:32 dust problem has come as a shock appears that galaxies generate twice as much starlight as previously thought." National Programme for IT in the NHS: Progress since 2006 The team combined an innovative new model of the dust distribution in galaxies developed by Dr Cristina Popescu of the 16 May Revised University of Central Lancashire and Prof Richard Tuffs of the Max 2008 10:22 Plank Institute for Nuclear Physics, with data from the Millennium Sentencing Guidelines Galaxy Catalogue, a state-of-the-art high resolution catalogue of for Magistrates' Courts 10,000 galaxies assembled by Driver and his team using the Published Isaac Newton Telescope on La Palma among others. 16 May 2008 10:10 Using the new model, the astronomers could calculate precisely Statistical press the fraction of starlight blocked by the dust. The key test that notice: A&E statistics the new model passed was whether the energy of the absorbed quarterly update starlight equated to that detected from the glowing dust. 16 May New "The equation balanced perfectly", said Dr Cristina Popescu, "and for the first time we have a total understanding of the energy output of the Universe over a monumental wavelength range." 2008 09:56 bus route 135 links the City and Canary Wharf "The results demonstrate very clearly that interstellar dust grains 16 May have a devastating effect on our measurements of the energy output from even nearby galaxies" says Prof Richard Tuffs, "with the new calibrated model in hand we can now calculate precisely the fraction of starlight blocked by the dust." 2008 09:55 Detailed noise maps available at the click of a mouse - Shaw 16 May The Universe is currently generating energy, via nuclear fusion in the cores of stars, at a whopping rate of 5 quadrillion Watts per 2008 09:52 Company winding up cubic light year - about 300 times the average energy and bankruptcy consumption of the Earth's population. petition court statistics - First Quarter 2008 "For over 70 years an accurate description of how galaxies, the 16 May locations where matter is churned into energy, form and evolve Kelly

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has eluded us. Balancing the cosmic energy budget is an important step forward," said Dr Driver. announces £244m for Manchester tram extensions After carefully measuring the brightness of thousands of disc-shaped galaxies with different orientations, the astronomers Record number matched their observations to computer models of dusty of galaxies. From this they were able to calibrate the models and, offices attends INTA for the first time, determine how much light is obscured when a 2008 galaxy has a face-on orientation. This then allowed them to determine the absolute fraction of light that escapes in each Ofwat direction from a galaxy. recommends opening water and sewerage While modern instruments allow astronomers to see further into space, they can't eliminate the obscuring effect from these tiny dust grains. "It is somewhat poetic that in order to discover the markets to competition Report full glory of our Universe we first had to appreciate the very small" said Dr Alister Graham from the Swinburne University of into serious Technology. fraud UK The work is set to continue but with a change of focus from the study of the Universe as a whole, to the study of individual announces extra £12m galaxies. This requires two new facilities which are coming online this year. The first is the VISTA telescope, which will soon to help Cyclone victims in Burma commence operations in Chile and the second is the Herschel satellite due for launch later in the year. Healthier school "VISTA will enable us to see right through the dust while Herschel will directly detect the dust glow" says Dr Liske of the European dinners Southern Óbservatory. New plan for UK astronomers enjoy full access to both of these facilities libraries through the UK's membership, paid by the Science and Technology Facilities Council, of the European Southern Observatory and the European Space Agency which are puts users first responsible for operating these facilities. Planning for climate change "Although the Universe appears to be squandering its resources twice as fast as we previously thought, there's still plenty of juice in the tank; for now" says Dr Ivan Baldry of Liverpool John Moores University. Government seeks views on creating a This research has been funded by the Science and Technology Facilities Council (STFC), the Australian Research Council, the Max-Planck Society and a Livesey award from the University of safe and prosperous future Annual Central Lancashire. Report 2008 Note to Editors The Millennium Galaxy Catalogue consists of data from the Anglo-Australian Telescope, The Australian National University's 2.3 m telescope at Siding Spring Observatory, the Isaac Newton Telescope and the Telescopio Nazionale Galileo at the Spanish Yorkshire Company Revolutionising Future Care Observatorio del Roque de Los Muchachos, La Palma, of the Instituto de Astrofisica de Canarias, and also from the Gemini and ESO New Technology Telescopes in Chile. £400,000 Available to Help Yorkshire Farmers to Profit Through Authors: Simon Driver (University of St Andrews, Scotland), Cristina Popescu (University of Central Lancashire, England), Richard Tuffs (Max-Planck Institute fur Nuclear Physics, Resource Efficiency Cash Germany), Alister Graham (Swinburne University of Technology, Australia), Jochen Liske (European Southern Observatory, Germany), Ivan Baldry (Liverpool John Moores University, Confiscations Wipe Smiles Off Crooks' England). Faces Images Fisheries Fuel Task Force High resolution images showing galaxies known to contain dust obscuring the stars are available from Drive to http://astronomy.swin.edu.au/~agraham/dust/dust.html reduce offending Press Office Contacts Consultation on unified STFC courts administration Press Office Julia Maddock £35m Tel +44 1793 442094 for Mobile +44 7901 514 975 parents

Julia.maddock@stfc.ac.uk	with disabled children to get easier access to childcare
Press Office, University of St Andrews Fiona Armstrong, Press Officer Tel 01334 462530 / 462529, email <u>fa12@st-andrews.ac.uk</u>	15 May 2008 14:38 Interested in Acquiring Social Research Skills? Unable to attend classes?
Swinburne University Media Contact Crystal Ladiges Tel +61 3 9214 5064 or +61 0416 174 880	Parks 15 May and 2008 12:17 public gardens to be at the heart of the Thames Gateway
Science Contacts	15 May 2008 12:14
Dr Simon Driver University of St Andrews Work 01334-461680 Mobile: 07919305906 spd3@st-andrews.ac.uk	Ship-to-ship transfer regulations consultation launched today
Dr Cristina Popescu University of Central Lancashire Tel 01772 893 551 <u>cpopescu@uclan.ac.uk</u> Dr Ivan Baldry	2008 12:01 Announcement of the appointment of Non-Executive Directors of the Personal Accounts Delivery Authority
Liverpool John Moores University <u>ikb@astro.livjm.ac.uk</u> Dr Richard Tuffs Max Plank Institute for Nuclear Physics	15 May 2008 11:52 Tackling serious organised crime in new and different ways
<u>Richard.Tuffs@mpi-hd.mpg.de</u> Dr Alister Graham Swinburne University of Technology <u>agraham@astro.swin.edu.au</u>	15 May 2008 11:44 £103million wingvestment in Airbus TA 15 May
Tel :+61 3 9214 8784 Dr Jochen Liske	TA 15 May heroes 2008 11:34 of Iraq and Afghanistan lead parade through City of London
ESO Tel +49 89 32006582 jliske@eso.org	A 15 May winning 2008 11:27 wavelength
Science and Technology Facilities Council	Phoenix 15 May
The Science and Technology Facilities Council ensures the UK retains its leading place on the world stage by delivering world-class science; accessing and hosting international facilities; developing innovative technologies; and increasing the	probe 2008 11:03 due to touch down on Martian surface.
socio-economic impact of its research through effective knowledge exchange partnerships.	Three 15 May new 2008 11:01 rights to right local wrongs -
The Council has a broad science portfolio including Astronomy, Particle Physics, Particle Astrophysics, Nuclear Physics, Space Science, Synchrotron Radiation, Neutron Sources and High Power Lasers. In addition the Council manages and operates three	New Community Empowerment Bill to harness petition power
 internationally renowned laboratories: The Rutherford Appleton Laboratory, Oxfordshire The Daresbury Laboratory, Cheshire The UK Astronomy Technology Centre, Edinburgh 	patients 2008 10:56 and the bereaved to benefit from Department of
The Council gives researchers access to world-class facilities and funds the UK membership of international bodies such as the European Laboratory for Particle Physics (CERN), the Institute Laue Langevin (ILL), European Synchrotron Radiation Facility (ESRF), the European organisation for Astronomical Research in the Southern Hemisphere (ESO) and the European Space Agency	Health investment in hospital environments Care 15 May Quality 2008 10:45 Commission Chair announced
(ESA). It also contributes money for the UK telescopes overseas on La Palma, Hawaii, Australia and in Chile, and the MERLIN/VLBI National Facility, which includes the Lovell Telescope at Jodrell Bank Observatory.	MoD 15 May 2008 10:40 announces NATO force move to Gloucestershire

	15 20
The Council distributes public money from the Government to support scientific research. Between 2007 and 2008 we will invest approximately £678 million.	15 May 2008 10:35 Astronomers find that Universe shines twice as bright
	Parole 15 May Board 2008 10:32 publishes business plan for 2008/09
	Extra 15 May funding 2008 10:01 for rural stations
	Flexible 15 May working 2008 08:38 to help 4.5 million more parents
	British 15 May crime 2008 00:02 survey extended to under-16s as design experts meet to tackle youth crime
	Fatality 14 May in River 2008 23:10 Dart after car drives off jetty 10
	More 14 May patients 2008 17:08 say they receive excellent care from NHS hospitals in major national survey
	ISIS 14 May 2008 16:37 scientist puts neutrons on the crystallography map
	UK 14 May 2008 16:22 Government to give £1 million for China earthquake relief
	Top 14 May Guns 2008 16:14 Slash Carbon Dioxide Emissions at Police Firing Range
	John 14 May Hutton 2008 15:51 MP visits innovative London 2012 business service
	Mod 14 May 2008 15:16 announces Baha Mousa Public Inquiry
	First 14 May ever 2008 14:45 campaign to get Wales talking about organ donation
	14 May 2008 14:42 Tackling Anti-social Behaviour on Buses
	BEST 14 May FOOT 2008 14:40 FORWARD FOR FUNDRAISING OFFICERS.

14 May
2008 14:39
Innovative aviation research and
development to be
co-funded by Technology Strategy
Board
West 14 May 2008 14:33
Edinburgh Planning
Framework
Illegal 14 May driving 2008 14:33
instructors operating in your area
Fuel 14 May
help for 2008 14:30
fishing industry
Purnell: 14 May
time for 2008 14:28 the
public to tell us what they want from the
welfare and benefits
system
14 May 2008 14:13
Legislative programme
to strengthen local democracy and give
power to the people
14 May 2008 13:55
Treasury legislation to ensure financial
stability and a fair
society
New 14 May 2008 13:32
proposals to empower the individual
Change 14 May
of Her 2008 13:31
of Her 2008 13:31
of Her 2008 13:31 Majesty's Ambassador to the Ukraine Draft 14 May
of Her 2008 13:31 Majesty's Ambassador to the Ukraine Draft 14 May 2008 13:29
of Her 2008 13:31 Majesty's Ambassador to the Ukraine Draft 14 May
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Celtic 14 Ma 2008 11:11 countries connect with contemporary Cymru £36m 14 Ma to 2008 11:00 support	
countries connect with contemporary Cymru £36m 14 May to 2008 11:00 support	
to 2008 11:03 support	_
Welsh entrepreneurs	
OFT 14 Ma 2008 10:4 launches market study into sale and rent bac	Ó V
14 Ma	
2008 10:3 Dramatic improvemen in waiting times for tests	_
14 Ma	
Ministers meet key players across London to tackle child poverty	1
Purnell: 14 Mag	-
2008 09:5 Employment rising as	4
more people come off benefits and move into work	
14 Ma 2008 09:3	
Statistical press	_
notice: Diagnostics waiting times and activity data - Monthly update	/
Yacht 14 Mag	
2008 07:5 Rescued from Goodwin Sands in Rough Seas	_
Ministry 14 Ma of 2008 00:02 Defence	
releases X-files	
14 Ma 2008 00:01	
Companies say 'Breas Wishes' to mums for National Breastfeeding	t
Awareness Week	1
11-17th May 2008	τ,
Foreign 13 Ma 2008 19:2	
Secretary on Jaipur bombings	
13 Ma 2008 17:23	
Transport for London begins online sponsorship trial	
Better 13 Ma	
access 2008 17:20 to learning resources	U
13 Ma	
2008 17:0 Planetarium Plays Hos to Pope's Astronomer	
13 Ma 2008 16:4	
Charlotte Church launches breastfeeding drive	

New 13 May	٦
2008 16:40 Chairman appointed to	
the Standards Board for England	
FSA 13 May fines 2008 16:15	1
Land of Leather and its Chief Executive for PPI failings	•
OFT 13 May	1
2008 15:19 statement regarding the recognition of Ice Clear Europe	-
13 May 2008 13:57	1
Department for Business appoints new Chief Scientific Adviser	
13 May	1
2008 13:50 Department for	•
Business appoints new Director General, finance	
13 May 2008 13:33	1
CLOSING THE	
PRODUCTIVITY GAP IN NORTHERN IRELAND	
First 13 May Chair of 2008 13:01	1
Office for Tenants and Social	
Landlords announced	
Dhanda 13 May - 2008 12:05	
Government committed to tackling antisemitism	
13 May	1
2008 12:02 Responding to Our	•
NHS, our future's report 'Leading Local Change'	
13 May 2008 11:14	1
Delivering skills that work for Wales	•
Free 13 May rail 2008 10:39	1
travel	
Good 13 May	1
2008 10:28 progress' on	-
Environmental Stewardship	
Future 13 May of 2008 10:20	1
crofting	
13 May 2008 10:16	1
Financial penalties for utility companies which	
fail to give proper notice of street works	
introduced	
Action 13 May to help 2008 10:15	1
red squirrels	ĺ
Squires	

13 May 2008 00:02 Department of Health launches campaign to address inequalities in breastfeeding
Cliff 12 May rescue 2008 22:33 of girls at Muchalls
The 12 May Foreign 2008 21:10 Secretary, David Miliband, on the Chinese earthquake
China 12 May
Earthquake: British Geological Survey data
PE in 12 May schools 2008 17:21
OFGEM 12 May 2008 17:12
APPOINTS NEW DIRECTOR
Major 12 May works 2008 17:06 to
Aldgate East gyratory begin today
Midge 12 May Ure 2008 17:01
Tells Yorkshires Businesses to 'Get Involved' with Community Partnerships
12 May 2008 16:58
Yorkshire Region Welcomes Tour of Britain for a Fifth Consecutive Year
MPA 12 May London 2008 16:53 Assembly members announced
Sport 12 May England 2008 16:51 relaunches Sportsmatch
First UK 12 May aid 2008 16:22 flight leaves for Burma
Name, 12 May
Shame 2008 15:52 and Claim - in the Fight
Against Forecourt
Criminals
Criminals 12 May 2008 15:40 Batteries power ahead Dhanda 12 May
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Criminals 12 May 2008 15:40 Batteries power ahead Dhanda 12 May 2008 15:10 Government committed to tackling antisemitism

2008 13:27

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questions move up a gear
Taser 12 May 2008 12:14
discharges increase as more trained officers have the authority to use them
12 May 2008 12:01 Harman: Women opting to be their own boss
RISKY 12 May RAINY 2008 11:53 DAYS WHO PLANS FOR THEIR FINANCIAL FUTURE?
Military 12 May and 2008 11:51 Civilian Health Partnership Awards launched
£3 2008 11:46 MILLION INVESTMENT FOR FUTURE OF SCIENCE AND MATHEMATICS EDUCATION
Parents 12 May urged 2008 11:07 to get online for online safety tips
Skills 12 May
2008 10:53 shortages in UK construction set to worsen
12 May 2008 10:45 Appointments to the Zoos Forum
MATHS 12 May PLUS 2008 10:21 'GEEKY' IMAGES EQUALS DETERRED STUDENTS
12 May 2008 10:18 Independent Transport: The key to independent living
Blears - 12 May 2008 10:16 community cohesion
IS 12 May
2008 10:14 DIVORCE BAD FOR THE PARENTS?
Farepak 12 May
investigation complete
12 May 2008 00:02 GOVERNMENT LAUNCHES NATIONAL DEBATE ON THE FUTURE OF CARE AND SUPPORT £31 million hi-tech home healthcare scheme begins

Drink 11 May and 2008 07:44 stupidity lead to two in the water at Studland
Sudan10 Maytravel2008 20:14advice
Joint 10 May Search 2008 14:47 and Rescue games - 2008



