



August 2004

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Editorial

Job Register Fee Change

The AAS Job Register has always had a 250 word limit per job announcement. This limit encourages the brief and informative description of jobs and greatly aids job seekers by limiting announcements to a reasonable length. In the past, we worked with institutions to edit their announcements to meet this limit, but this was always an inconvenience for both the AAS and the publishing institution.

Announcements beyond the 250 word limit can now appear, but will incur a \$0.25 per word surcharge. It is understood that some announcements must be longer than 250 words and this fee was set low so as not to incur an undue financial penalty on these lengthy announcements.

The Job Register announcement base rate remains at a very low rate compared to comparable services provided by other professional societies. The AAS will continue to strive to maintain a low rate for the announcement of employment opportunities, which we feel is of significant benefit to the astronomical community and continues to secure the AAS Job Register's position as the number one source for astronomical employment opportunities.

Kevin B. Marvel
Deputy Executive Officer

Publication Policy for the AAS Job Register

Deadlines for submission

Job announcements may be submitted at any time and should be submitted well before the deadline so that any errors or difficulties can be resolved efficiently.

Job announcements must be received and paid for by the 15th of each month for publication in the subsequent issue of the *Job Register*.

If payment is not received, then the announcement will not run in the next month's issue, but in the subsequent month's issue. We recommend that submission and payment be made well in advance of the monthly deadline.

Examples

Submit and pay by 15 October - Announcement will appear in the November *Job Register*

Submit and pay by 19 October - Announcement will appear in the December *Job Register*

Submit by 15 October, but pay after that date but before December 1- Announcement will appear in the December *Job Register*.

Rate Sheet

There is a publication charge of \$114 per job announcement, per issue.

If payment is made by credit card, a discount of \$5 is applied for each month of publication.

An additional \$0.25 will be charged to each word over the 250 word limit.

Employers must indicate how they will pay for their announcement at the time of submission.

We accept payment by:

Check, in US currency drawn on a US bank. VISA and MasterCard be sure to include expiration date.

Checks should be made payable to American Astronomical Society and sent to:

American Astronomical Society
Attention Job Register Payment
2000 Florida Ave., NW,
Suite 400
Washington, DC 20009-1231, USA
FAX: 202-234-2560

The AAS is a small, scientific, non-profit organization.

The AAS Federal Identification number is 21-0735173.

In **very rare** circumstances a discount may be available for institutions from developing countries. In all cases, a formal petition for a reduced fee must be sent by email or FAX to the Deputy Executive Officer, [Dr. Kevin B. Marvel](#) requesting a discount and justifying the request.

In no case will the discount exceed a 50% reduction in the publishing fee or will discounts be available for more than one announcement per year.

Announcement Requirements

The word count limit per listing is 250 words. For longer ads, a \$0.25 per word charge will be applied.

Jobs will not be published without the following:

(1) Indication that the vacancy is *bona fide* and that the position has not been promised to anyone;

(2) for first time publication, an application closing date that falls no earlier than the last day of the month of publication; and

(3) a check or appropriate billing information as described above.

We encourage advertisers to provide URLs to relevant web sites with their job announcements or additional information (e.g. department homepage).

Previously published jobs may be re-published in the current issue with an application closing date earlier than the last day of the current month.

The decision to run an ad without 30 days response time is left to the originators.

The *AAS Job Register* cannot require overseas employers to comply with any U.S. regulations regarding employment discrimination.

Submission

All jobs should be submitted using the [Web Submission Form](#) or, if necessary, send your advertisement by electronic mail to jobs@aaas.org. If electronic mail is not available, job announcements, with payment are also accepted by US mail, and by FAX at 202-234-2560.

Frequency and Circulation

The *Job Register* is published monthly. On the average, 60 new jobs are announced in each issue. Since the *Job Register* is freely available to anyone with Internet access, circulation numbers are hard to estimate. In February 2001, over 6,000 unique IP addresses accessed the *Job Register*.

[Job Register statistics](#) are published on the Career webpages and in the Annual Report of the Society in the *Bulletin of the American Astronomical Society*.

The *Job Register* is published on the Web at: <http://members.aas.org/JobReg/Jobregister.cfm>.

Member Notification

The AAS maintains a list of members that like to be notified when a New Job Register is posted. Members may be added to the *Job Register* email notice list by sending a message to address@aaas.org.

Jobs from Previous Months

(Note: Some jobs reposted from prior months may have closing dates during the current month. Readers should pay careful attention to the posted closing dates.)

No. 20434

Radio Astronomer

NAVAL RESEARCH LABORATORY

2001 Wisconsin Ave., NW

GR 322A

Washington, DC 20007

USA

Tel: 202-334-2760

FAX: 202-334-2759

URL1: <http://rsd-www.nrl.navy.mil/7213/weiler/>

Email Inquiries: Namir.Kassim@nrl.navy.mil, rap@nas.edu

Attention: Research Associateship Programs

Postdoctoral Positions in Radio Astronomy

NAVAL RESEARCH LABORATORY Remote Sensing Division, Code 7213 4555 Overlook Ave. SW Washington, DC 20375-5351 Tel. 202-767-0668 FAX: 202-404-8894
mailto:Namir.Kassim@nrl.navy.mil Attention: Dr. Namir Kassim

The Remote Sensing Division of the Naval Research Laboratory (NRL) is seeking postdoctoral applications from those with an interest in radio astronomy. The successful candidate will be expected to carry out innovative research programs in (1) Radio astronomy hardware development, such as antenna and receiver design and development, digital signal processing, or radio frequency interference (RFI) mitigation techniques; or (2) Any area of astrophysics where existing or planned low-frequency radio observations (e.g., with VLA, VLBA, Arecibo, GMRT, GBT) may contribute, such as high-redshift radio galaxies, clusters of galaxies, supernova remnants and pulsars, studies of propagation effects, searches for extrasolar planets, or the solar system (e.g., Jupiter or the Sun).

NRL radio astronomers carry out a wide range of observational programs at the VLA, VLBA, and Arecibo Observatory, with a primary focus on the 74 and 330 MHz VLA and 330 MHz VLBA systems. The NRL-NRAO 74 MHz VLA system, with its 35 km baselines, is the highest angular resolution, highest sensitivity, low-frequency radio interferometer in operation today. With it, NRL scientists are beginning a sky survey of the northern hemisphere, the VLA Low-Frequency Sky Survey (VLSS). Inspired by the capabilities of the 74 MHz system, NRL radio astronomers, together with scientists at an international consortium consisting of the Netherlands Foundation for Research in Astronomy (ASTRON) and Massachusetts Institute of Technology (MIT) are planning to build the Low Frequency Array (LOFAR). NRL radio astronomers are involved in designing and developing two prototype LOFAR "stations" or phased banks of dipoles to be deployed in the 2004--2005 time frame. Observational programs, such as a 74 MHz sky survey or ongoing 74 and 330 MHz Galactic center observations, are pursued both for their intrinsic astronomical interest as well as to help guide LOFAR calibration and imaging strategy and array configuration design. LOFAR will open a

new window on the spectrum, with scientific applications in virtually all areas of astrophysics.

Postdoctoral applications should be pursued through the National Research Council (NRC). NRL-NRC Associateships are awarded to persons who have held their doctorate for less than five years at the time the award is offered. Awards are for two years, with a third year extension if warranted. Applicants will need to submit an original research proposal to be approved by the NRL-NRC advisor for subsequent evaluation by an external review panel chosen by the NRC. Each year, deadlines for submission to the NRC are February 1, May 1, and August 1. The current award stipend is \$55,120 per year. US citizenship or permanent residency is required. Application materials can be obtained online at www.national-academies.org/rap. For further information contact Dr. Namir Kassim at the above address; see also the NRL SNe/SNR/LFRA site: <http://rsd-www.nrl.navy.mil/7213/weiler/>.

No. 20670

**Postdoctoral and Senior Research Awards in the Space and Planetary Sciences
NATIONAL RESEARCH COUNCIL OF THE NATIONAL ACADEMIES**

Tel:

URL1: <http://www.national-academies.org/rap>

Attention:

National Research Council Research Associateship Programs:

Postdoctoral Research Awards, Senior Research Awards, Summer Faculty Fellowships

The National Research Council of the National Academies is accepting applications for awards for independent scientific research at the postdoctoral level and beyond for research to be conducted in residence at US Government laboratories. Awards will be offered in most areas of science and engineering, including astronomy, planetology, astrophysics, solar research, cosmology and related disciplines.

Among participating laboratories are: Air Force Research Laboratory, Naval Research Laboratory, Naval Postgraduate School, NASA Astrobiology Institute, NASA Ames Research Center, NASA Goddard Space Flight Center, NASA Johnson Space Center, NASA Marshall Space Flight Center, NASA Kennedy Space Center, NASA Glenn Research Center, NASA Jet Propulsion Laboratory, NASA Langley Research Center.

Awardees design their own research projects to be compatible with the interests of the sponsoring laboratory. Stipends for recent Ph.D. recipients range from \$36,000 to \$61,000 and are higher for additional experience. Awards also include support for relocation, professional travel and health insurance.

Annual application deadlines are November 1, February 1, May 1, and August 1. Detailed program information, including instructions on how to apply, can be found at: www.national-academies.org/rap

Questions should be directed to the NRC at tel: 202-334-2760 e-mail: rap@nas.edu

No. 20671

**Postdoctoral and Senior Research Awards in the Space and Planetary Sciences
NATIONAL RESEARCH COUNCIL OF THE NATIONAL ACADEMIES**

Tel:

URL1: <http://www.national-academies.org/rap>

Attention:

National Research Council Research Associateship Programs:

Postdoctoral Research Awards, Senior Research Awards, Summer Faculty Fellowships,

The National Research Council of the National Academies is accepting applications for awards for independent scientific research at the postdoctoral level and beyond for research to be conducted in residence at US Government laboratories. Awards will be offered in most areas of science and engineering, including astronomy, planetology, astrophysics, solar research, cosmology and related disciplines.

Among participating laboratories are: Air Force Research Laboratory, Naval Research Laboratory, Naval Postgraduate School, NASA Astrobiology Institute, NASA Ames Research Center, NASA Goddard Space Flight Center, NASA Johnson Space Center, NASA Marshall Space Flight Center, NASA Kennedy Space Center, NASA Glenn Research Center, NASA Jet Propulsion Laboratory, NASA Langley Research Center.

Awardees design their own research projects to be compatible with the interests of the sponsoring laboratory. Stipends for recent Ph.D. recipients range from \$36,000 to \$61,000 and are higher for additional experience. Awards also include support for relocation, professional travel and health insurance. Annual application deadlines are February 1, May 1, August 1, and November 1. Detailed program information, including instructions on how to apply, can be found at: www.national-academies.org/rap

Questions should be directed to the NRC at tel: 202-334-2760 e-mail: rap@nas.edu

No. 20733

Research Scientist/Senior Scientist in Planetary Sciences

PLANETARY SCIENCE INSTITUTE

1700 E. Fort Lowell

Suite 106

Tucson, AZ 85719-2395

USA

Tel: 520-622-6300

FAX: 520-622-8060

URL1: <http://www.psi.edu/ad04.html>

Email Submission Address: psikey@psi.edu

Attention: Search Committee

The Planetary Science Institute (PSI) seeks to expand its scientific staff through the addition of research scientists and senior scientists. PSI is a growing, non-profit research and educational

organization founded in 1972 with an established record of research excellence in space science, astronomy, and planetary geosciences. New staff are desired to complement and enhance PSI's ongoing research in lunar and martian geology, impact cratering, asteroid studies, origins of planetary systems, and ground-based and spacecraft remote sensing, as well as PSI's education and public outreach efforts. PSI has offices in Tucson, AZ, Winthrop, WA, and Laguna Niguel and Pasadena, CA, as well affiliated scientists distributed across the country.

Candidates are expected to develop their own independent, externally funded research program. Limited support may be available to junior candidates. Ph.D. is required at the time of appointment. The level of appointment will depend on background and experience. Collaborative research within PSI is encouraged, and active participation in NASA mission data analysis, mission planning/operations, and/or instrument development is desirable.

Applicants should submit a current curriculum vitae (including publication list and research grant record), a 1-2 page statement of research interests, and contact information for 3 references to: Search Committee, Planetary Science Institute, 1700 E. Ft. Lowell Rd., Suite 106, Tucson, AZ 85719 or psikey@psi.edu .

Initial review of applications will begin May 15, 2004.

No. 20835

**Project Manager for the CARMA Telescope
CALIFORNIA INSTITUTE OF TECHNOLOGY**

**P.O. BOX 968
100 LEIGHTON LANE
BIG PINE, CA 93513
usa**

Tel: (760) 938-2075

FAX: (760) 938-2297

Email Submission Address: djuliff@ovro.caltech.edu

Attention: D. Juliff

Project Manager for the CARMA Telescope OWEN VALLEY RADIO OBSERVATORY P.O. Box 968 100 Leighton Lane Big Pine, CA 93513 Attention: D. Juliff

The CARMA Project (Combined Array for Research in Millimeter-wave Astronomy) is seeking a project manager who will supervise the design and construction of a merger between the 6-telescopes of Caltech's Owens Valley Radio Observatory (OVRO) millimeter array, presently located at Big Pine, CA, the 9-telescopes of the Berkeley-Illinois-Maryland Association (BIMA) array, presently located at Hat Creek, CA and, it is anticipated, the 8-telescopes of the UChicago Sunyaev-Zeldovich Array currently located at OVRO. All telescopes will be moved to a new, higher elevation site in the Inyo Mountains, at Cedar Flat, and will operate together as a single aperture synthesis instrument.

The project manager will oversee the development of the new site, including the construction of roads, antenna pads, a lab building, electrical power, and communications; will supervise transport of the Caltech and BIMA telescopes to this site; and will coordinate the integration of

these telescopes into a combined array with a common antenna control system and correlator. The position will require working with local, state, and federal agencies, as well as supervising environmental and civil engineering consultants. The project manager may also be required to appear before various public and special interest groups to explain the plans and progress of the CARMA project.

The project manager will be an employee of either Caltech or UC Berkeley and will receive benefits associated with one of the universities. This person will report to a board composed of members from the four universities, and will prepare reports, schedules, and budgets required by this board or the NSF. It is expected that the project manager will live in or near Bishop, CA.

The position is available immediately. Ideally, we would like to make an appointment and have someone in place before mid-August. The salary will be commensurate with experience. Applications, consisting of a statement of purpose, a resume listing relevant experience, and a list of three individuals from whom letters of reference can be sought, should be received prior to August 1, 2004 for full consideration. However, the search will continue until a suitable candidate is identified

Please address applications to Project Manager Position at the above address.

Women, Minorities, Veterans, and Disabled Persons are encouraged to apply. AAE/EOE.

No. 20839
Project Scientist for the WIYN One Degree Imager
WIYN OBSERVATORY
950 North Cherry Ave
Tucson, AZ 85719
USA
Tel: 520-318-8100
FAX: 520-318-8650
Email Submission Address: hrnoao@noao.edu
Email Inquiries: jacoby@wiyn.org

Attention: NOAO Human Resources Manager

Project Scientist for the WIYN One Degree Imager

The WIYN Consortium has an immediate opening for a motivated scientist with an instrumentation background to oversee the development of a new technology wide-field optical imager for the WIYN 3.5-m astronomical telescope on Kitt Peak. The One Degree Imager (ODI) will be a state-of-the-art 32K x 32K array using orthogonal transfer CCD detectors. These detectors provide tip/tilt correction to improve the image quality across the full 1-degree field of view at WIYN from the current R-band median FWHM of 0.7" to 0.55" and allow for a fast 2-second readout of the entire array. ODI will make optimal use of the WIYN telescope's superb optics, excellent seeing characteristics, and natural one degree field of view. For more information about WIYN and ODI, please see <http://www.wiyn.org/ODI> .

In collaboration with the Project Engineer and Project Manager, the Project Scientist leads the effort to design, develop, and scientifically optimize all aspects of ODI, including the detector

arrays, the optical filters, the optical corrector for the telescope, the data acquisition electronics, and the computers and software that collect and reduce the data. The Project Scientist provides the long-term guidance to assure successful delivery of a scientifically productive instrument.

We are looking for applicants having a strong track record in leading the development of astronomical instrumentation, and the ability to evaluate technical and scientific trade-offs for complex hardware and software systems. A PhD in astronomy or physics is required.

The Project Scientist will have an initial appointment of four years with potential for continued employment. Guaranteed access to 3.5-m telescope time for the Project Scientist's research programs will be available. This position is based at the WIYN offices located at NOAO in Tucson, AZ near the University of Arizona campus, but requires occasional travel to Kitt Peak Mountain, 56 miles southwest of Tucson, AZ. Inquiries about this position may be directed to George Jacoby jacoby@wiyn.org or 520-318-8292. Please send a resume, CV, bibliography, and the names of three references electronically to hrnoao@noao.edu, by September 1, 2004. Please reference WIYN Project Scientist Position #606 in the subject line. By mail, please send to the following address.

NOAO Human Resources Manager

Attn: WIYN Project Scientist Position #606

PO Box 26732

Tucson, AZ 85726-6732

We are an Affirmative Action/Equal Opportunity Employer

and grant hiring preference to qualified Native Americans living on or near the Tohono O'odham Reservation

No. 20847

Senior Optical Engineer

JET PROPULSION LABORATORY

4800 Oak Grove Drive

Pasadena, CA 91109

Tel: 818-354-4321

FAX: n/a

URL1: <http://careerlaunch.jpl.nasa.gov>

Email Submission Address: Paula.Caterina@jpl.nasa.gov

Attention: Paula Caterina

Some of our best discoveries are right here on Earth.

Discover the Jet Propulsion Laboratory (JPL), a division of the California Institute of Technology (Caltech) whose deep space explorations are transforming the future. As we continue to explore our universe, our Mars Explorers are revealing a new frontier and you can

feel the excitement throughout JPL. We currently have an exciting position available for a qualified professional sharing our pioneering spirit and passionate pursuit of innovative excellence.

Unique opportunity to join the Optical Systems Modeling Group as a Senior Engineer to support upgrades to the Palomar Adaptive Optics system and provide system engineering expertise. Near term planned upgrades include a Sodium Laser guide star and high-contrast imaging experiment over a sub-pupil of the Hale 5 meter telescope. You will be involved in all aspects of design, building, implementation and integration and testing for the opto-mechanical modifications needed to implement the required system modifications. Will also perform data analysis and experiment design to help define system level requirements and analyze system performance.

Required Skills: Ph.D degree in Optical Engineering or Optical Sciences, Mechanical Engineering, Physics, Engineering Physics, or Astronomy plus 6 years experience, or MA/MS degree with 8 yrs, or BA/BS with 10+ years, or equivalent technical experience. Significant working knowledge and experience with adaptive optics systems and wavefront sensing techniques. Broad range of skills in optics, applied physics, electronics, integration & testing and computer skills such as Unix, C, IDL and Matlab. Must possess high degree of initiative and be able to work without detailed supervision. Ability to work independently and in a team environment. Excellent verbal and written communication skills. Strong interpersonal and organizational skills. Experience with commercial optical and mechanical design packages (e.g. Zemax, CodeV, AutoCAD, Mechanical Desktop) a plus.

Enjoy a competitive salary and impressive benefits with the renowned leader in space exploration. If you'd like to discover new worlds with our innovative team, please apply online at: <http://Careerlaunch.jpl.nasa.gov> and attach your resume to requisition #1308.

(Requisition #1308) EOE.

JPL www.jpl.nasa.gov

No. 20848

Chairs and Lecturers in the Centre for Earth, Planetary, Space and Astronomical Research, The Open University, U.K.

THE OPEN UNIVERSITY

Walton Hall

Milton Keynes, Buckinghamshire MK7 6AA

U.K.

Tel:

URL1: <http://www3.open.ac.uk/employment>

(Job opportunities at the Open University)

URL2: <http://cepsar.open.ac.uk>

(CEPSAR website)

Email Inquiries: Research-Investment@open.ac.uk

Attention: Recruitment Coordinator, Faculty of Science

Renowned as an international authority on supported open learning and for the quality of its

teaching, the University also has a strong research tradition and record of achievement across a wide range of disciplines. To develop and enhance key research and curriculum areas the University is making a major investment in new posts, most of which are at senior level. Many of the posts are within new interdisciplinary Research Centres that bring together some of the best researchers from across the University. The posts offer outstanding academics the opportunity to work in a unique institution with an innovative curriculum and a vibrant research community.

Centre for Earth, Planetary, Space and Astronomical Research (CEPSAR)

The Centre studies the origins, evolution and chemistry of materials that form the stars and planetary bodies, the processes and natural systems that shape the environment of our habitable world, and the essential properties of a solar system that allows life to develop on one of its planets. The Department of Earth Sciences and the Planetary and Space Sciences Research Institute, which together make up the majority of the Centre, achieved grade 5 in RAE 2001.

Chair in Planetary and Space Sciences To further enhance our strengths in areas such as planetary materials, isotope cosmochemistry, astrobiology, space environment, planetary exploration and hypervelocity impact physics.

Chair in Astronomy An astrophysicist with a strong record in attracting grants and a willingness to collaborate with others within the Centre on existing and new research programmes.

Lecturer in Astronomy and Planetary Sciences With a key role in the co-ordination of existing and the initiation of new research programmes within the Hypervelocity Impact laboratory.

Closing date for Lectureship: 9 July 2004 Closing date for Chairs: 3 September 2004

No. 20852

Leader of a Junior Research Group in Helio/Astroseismology

MAX-PLANCK-INSTITUTE FOR SOLAR SYSTEM RESEARCH

Max-Planck-Strasse 2

Germany

Tel:

URL1: <http://www.linmpi.mpg.de>

Email Submission Address: solanki-office@linmpi.mpg.de

Email Inquiries: solanki-office@linmpi.mpg.de

Attention: Prof. S.K.Solanki, Managing Director

The Max-Planck-Institut fuer Sonnensystemforschung (Max Planck Institute for Solar System Research; previously the Max Planck Institute for Aeronomy), Katlenburg-Lindau, Germany, offers to outstanding young scientists the opportunity to set up an

Independent Junior Research Group in Helio- and/or Asteroseismology

The Max-Planck-Institut fuer Sonnensystemforschung (MPS) (www.linmpi.mpg.de) is the leading German research institute devoted to solar system physics. The research programme

of the Institute currently focusses on solar and heliospheric physics, planetary science and magnetospheric research. The Institute is interested in complementing the current research by establishing a research group in helioseismology and/or asteroseismology (preferably of Sun-like stars). The position of the group leader is at the W2 level in the German university system (comparable to an Associate Professor in the US system). In addition, the Max Planck Society guarantees a research budget (funds for computers, travel, publications, etc.), funds for a postdoc, and for 1-2 PhD students, as well as secretarial support.

The primary criterion for selection will be the proven ability to conduct internationally recognized research of high quality. Applicants should not be older than 35 years. The appointment will be for a term of five years with the possibility of an extension. Women are encouraged to apply. Qualifications being equal, precedence will be given to candidates with disabilities.

Applicants should send a curriculum vitae, list of publications, reprints of 3 selected publications and a brief (about 2500 words) description of previous research and planned projects for the Research Group not later than 15 August 2004 to:

Prof. Dr. S.K. Solanki Managing Director Max-Planck-Institut fuer Sonnensystemforschung
Max-Planck-Str. 2 37191 Katlenburg-Lindau Germany Email: solanki-office@linmpi.mpg.de

Applicants should ensure that at least 3 letters of reference are sent directly to the above address.

No. 20854
Postdoctoral Research Scientist in Astrophysics
UNIVERSITY OF CALIFORNIA, RIVERSIDE
1432 Geology Bldg.
University of California, Riverside
Riverside, CA 92521
USA
Tel: 909-787-5201
FAX: 909-787-3866
URL1: <http://www.ucr.edu>
URL2: <http://www.igpp.ucr.edu>
Email Inquiries: sergeyt@ucr.edu

Attention: France A. Cordova, Professor of Physics

The Institute of Geophysics and Planetary Physics (IGPP) at UC Riverside solicits applications for a postdoctoral research position in the astrophysics group of Professor France Cordova, U.S. Principal Investigator for the XMM Optical Monitor experiment. The appointee will participate in the data analysis (image analysis and spectroscopy) using X-ray data from XMM-Newton and Chandra, and data from ground-based telescopes, including Keck. The successful candidate will work with Prof. France Cordova, Drs. Sergey Trudolyubov and Gabriela Canalizo and other members of IGPP, and participate in a multi-institutional collaboration that includes Los Alamos National Laboratory, and Mullard Space Science Laboratory in the U.K. The research interests of the members of the astrophysics group include cataclysmic variables, X-ray sources in external galaxies, X-ray binaries, pulsars, AGN and deep field

science.

Postdoctoral positions are awarded initially for a one-year period, and may be renewed in one-year increments depending on satisfactory performance and on the availability of funding.

Requirements include a Ph.D. in Astronomy or Physics, a strong background in observational astronomy with a proven ability to conduct independent research. Applicants should submit a curriculum vitae, a list of publications, and a statement of research interests. They also need to provide the contact details of three referees. The position is available immediately but will remain open until filled. The University of California is an Affirmative Action/Equal Opportunity employer.

No. 20858

Post-doctoral Researcher in Astronomical Instrumentation

UNIVERSITY OF OXFORD

Denys Wilkinson Building

Keble Road

United Kingdom

Tel: +44 1865 273335

FAX: +44 1865 273390

Email Submission Address: sec@astro.ox.ac.uk

Email Inquiries: n.thatte1@physics.ox.ac.uk

Attention: Mrs L Walker

Post-doctoral research position in astronomical instrumentation

The Department of Physics expects to appoint a post-doctoral research position in astronomical instrumentation, with effect from 1st January 2005, or as soon as possible thereafter. The appointee will join a dedicated team of instrumentalists working on several state-of-the-art, second generation, facility instruments for 8 meter class telescopes. We particularly welcome applications from candidates with a proven record of research in any of the following areas: astronomical instrumentation hardware; opto-mechanical design; integral field and/or near infrared spectroscopy; real-time instrument control; IFU data reduction and analysis. Women and ethnic minorities are under-represented in this field and applications are encouraged from these groups. Further particulars of the post and more information on the group's research programme may be obtained from <http://www-astro.physics.ox.ac.uk>.

The Oxford instrumentation group is growing rapidly, with a strong focus on integral field and multi-object spectroscopy. We are playing a key role in KMOS, the second generation deployable IFU near-IR multi-object spectrograph for the ESO-VLT (see the KMOS website at <http://www.eso.org/instruments/kmos> for further details). We are one of the major partners in MUSE, a large field of view, visible wavelength, integral field spectrograph that is also part of the VLT's second generation instrumentation suite (please visit the MUSE website at <http://www-obs.univ-lyon1.fr/muse>). Other on-going projects include the FMOS instrument for SUBARU, and SWIFT, an European Commission funded project to build a novel IFS for the I and z bands. We are also partners in two successful design study bids for Gemini second generation instruments, an extreme AO instrument for direct imaging of exo-solar planets (ExAOC), and an extremely wide field, high multiplex, multi object spectrograph (GWFMOS).

The instrumentation group collaborates closely with the observational astrophysics and theoretical cosmology groups within the sub-department of Astrophysics.

Appointments will be made for a period of three years, on the University's RS1A scale. The gross salary will normally be in the range £21010 to £28279, depending on age and experience. For fullest consideration, applicants should send a curriculum vitae and ask three referees to write by the closing date of 15th September 2004 to:

Mrs L Walker Astrophysics Denys Wilkinson Building Keble Road Oxford OX1 3RH, United Kingdom. sec@astro.ox.ac.uk Fax: +44 (0)1865 273390

Please quote reference DB04007 in all correspondence. Electronic applications are acceptable in PDF, PS, or MS Word formats. Please contact Prof. Roger Davies (rld@astro.ox.ac.uk) or Dr. Niranjana Thatte (n.thatte1@physics.ox.ac.uk) for any queries related to this post.

No. 20861

UNIVERSITY LECTURESHIP IN ASTRONOMY

UNIVERSITY OF DURHAM, UK

UNIVERSITY OF DURHAM

The University Office

UK

Tel: + 191 334 6499

FAX: + 191 334 6495

URL1: <http://www.dur.ac.uk/Physics/research/>

(Department of Physics Research)

Email Inquiries: c.s.frenk@durham.ac.uk

Attention: PERSONNEL DEPARTMENT

The Physics Department of Durham University is seeking to fill a University Lectureship in Astronomy from January 2005. Applications are invited from suitably qualified individuals with research interests in observational extragalactic astronomy and/or modelling, including active galactic nuclei, galaxy evolution and star formation.

Durham hosts one of the largest groups in Europe dedicated to theoretical and observational astronomy and astronomical instrumentation. There are currently 15 members of staff with research interests in Astronomy, 4 Royal Society Research Fellows, about 30 postdoctoral researchers and about 20 research students. An outline of current research programmes in astronomy may be found at the web address above.

Further details of the post and an application form are available at the University web pages <http://jobs.dur.ac.uk>, or by telephone (44 191 334 6499) or fax (44 191 334 6495).

Applications (including a CV, bibliography and a statement of research interests) should arrive in Durham by the closing date of 15 August 2004. These materials may be submitted electronically through the University web pages or posted directly to the Personnel Department at the address above. Applicants should also arrange for up to three letters of recommendation to be sent directly to Ms. Penny Carse, Department of Physics, University of Durham, South Road, Durham DH1 3LE, England by the same date.

No. 20865**Support Scientist, with Emphasis on Adaptive Optics****UNIVERSITY OF CALIFORNIA, SANTA CRUZ****University of California, Santa Cruz****1156 High Street****Santa Cruz, CA 95064****USA****Tel: 831.459.2991****FAX: 831.459.5244****URL1: <http://www.ucolick.org/general/employment/ssci.html>****URL2: <http://www2.ucsc.edu/ahr/employment>****Email Submission Address: director@ucolick.org*****Attention: Joseph Miller, Director***

UNIVERSITY OF CALIFORNIA, SANTA CRUZ Lick Observatory Support Scientist, with Emphasis on Adaptive Optics. The University of California Observatories/Lick Observatory invites applications for a non-ladder-rank academic position in the UCO/Lick Observatory. Contingent on the availability of funding, the appointment initially will be for two years beginning September 1, 2004, with the possibility of extension. Major areas of responsibility include the support and advancement of adaptive optics, laser guide star, and infrared equipment. The appointee will work closely with faculty and technical staff and will be under the general direction of the UCO/Lick Observatory Director. Additional duties may include: provide instruction and scientific guidance to observers; support installation and commissioning of new equipment; carry out observing programs for observers, as requested; provide support for remote observing; perform on-call trouble-shooting and simple repairs; conduct observatory tours and night viewing programs, as scheduled by Director. Participation in research programs leading to published results is encouraged.

Special consideration will be given to candidates who have experience with measurement and testing of optical components or sub-systems. Considerable nighttime work required. Applicant expected to reside in University- subsidized residence on Mt. Hamilton. RANK: Associate Specialist I-III

SALARY: \$45,048-\$51,660

MINIMUM QUALIFICATIONS: PhD or equivalent experience in astronomy/physics or related field. Candidates must have working knowledge of AO systems, computer programming, data reduction, and electronics. Experience with operation of large telescopes and a working knowledge of modern astronomical instrumentation, including high- precision optical alignment and calibration, is desirable. Candidates must have the ability to work with a diverse population and have excellent communication skills.

TERM OF APPOINTMENT: Two years, with renewal contingent on positive performance evaluation and availability of funding.

POSITION AVAILABLE: September 1, 2004 (start date negotiable).

APPLY TO: Applicants should send a vita with list of publications and the names of at least

three professional referees (include postal and email addresses and phone number) who have been asked by the applicant to submit letters of recommendation (all letters will be treated as confidential, please direct your references to UCSC's confidentiality statement at <http://www2.ucsc.edu/ahr/policies/confstm.htm>) to:

Associate Specialist Recruitment c/o UCO/Lick, Office of the Director University of California
1156 High Street Santa Cruz, CA 95064 Please refer to provision T04-36 in your reply.

For additional information please see: <http://www.ucolick.org/general/employment/ssci.html>

CLOSING DATE: This position is open until filled. Applications will first be considered on August 15, 2004.

UCSC IS AN AFFIRMATIVE ACTION/EQUAL EMPLOYMENT OPPORTUNITY EMPLOYER
WOMEN AND MINORITIES ARE ENCOURAGED TO APPLY

Inquiries regarding the University's equal employment opportunity policies may be directed to: Equal Employment Opportunity/Affirmative Action Office at, University of California, Santa Cruz, CA 95064; (831) 459-2686. Under Federal law, the University of California may employ only individuals who are legally able to work in the United States as established by providing documents as specified in the Immigration Reform and Control Act of 1986.

If you need assistance due to a disability please contact the Academic Human Resources Office at 350 McHenry Library (831) 459-4300. This position description is available in alternate formats, which may be requested from Academic Human Resources at (831) 459-4300.

VISIT THE AHR WEB SITE AT <http://www2.ucsc.edu/ahr/employment/> 06/14/04

New Jobs This Month

No. 20867

Outreach Coordinator Astronomy and Astrophysical Education

UNIVERSITY OF CALIFORNIA, LOS ANGELES

3-166 Knudsen -Personnel

Box 95-1547

Los Angeles, CA 90095-1547

USA

Tel: (310) 825-3397

FAX: (310) 794-4850

Email Submission Address: personnel@physics.ucla.edu

Email Inquiries: personnel@physics.ucla.edu

Attention: Professor M. Jura

Under the general supervision of Vice Chair, Astronomy Division, incumbent will coordinate and lead astronomy and astrophysics Education and Public Outreach programs at UCLA's Physics & Astronomy Department, including efforts in astrobiology, adaptive optics, infrared astronomy, NASA missions such as SOFIA and Spitzer, and high-energy programs such as

VERITAS. Incumbent will act as liaison between Department's professional astronomers and broad audiences so that the research performed at UCLA is successfully disseminated to non-scientists including K-12 educators and the general public. The incumbent will be responsible for contributing to the improvement of undergraduate education, particularly to non-majors, and will involve interested graduate and undergraduate students in education and outreach activities. This position will also collaborate with Department faculty to develop educational and public outreach components of research proposals to government agencies, foundations, and other interested groups such as museums.

Applicant should have a Masters degree or higher in astronomy or closely related field with at least one year of working experience in education and outreach program implementation and have a strong interest in astronomy-related education and outreach. Incumbent must have a demonstrated knowledge of astronomy curricula at UCLA and other institutions and the ability to communicate concepts and information to audiences and groups, ranging from young children to professional astronomers. Interpersonal skills sufficient to interact cooperatively and effectively with faculty, staff, students of all age groups, external collaborators and institutions are required as well as demonstrated strong communication skills with broad range of audience from scientists to non-scientific general public. Applicant must have demonstrated ability to research information, analyze and develop logical processes and procedures in addition to implementing new procedures to resolve issues. Demonstrated ability to collaborate with wide variety of people and institutions; skill in analyzing, developing, designing clear and effective procedures; analytical skills necessary to collect and analyze data; ability to follow both oral and written instructions; and the ability to creatively develop new programs are requirements. Applicant should have demonstrated ability to write proposals, brochures and related materials with experience working with and writing grants preferred. INTERESTED APPLICANTS SHOULD SEND THEIR RESUME, A STATEMENT OF INTEREST, THREE REFERENCES AND CONTACT INFORMATION TO personnel@physics.ucla.edu

No. 20868

AAO Director's Research Fellow

ANGLO-AUSTRALIAN OBSERVATORY

PO Box 296

Epping

Sydney, NSW 2074

AUSTRALIA

Tel: +61 2 9372 4863

FAX: +61 2 9372 4860

URL1: <http://www.aao.gov.au/local/www/jobs>

(AAO Employment Opportunities Page)

URL2: <http://www.aao.gov.au/astro>

(Science at the AAO)

URL3: <http://www.aao.gov.au/about>

(Brief overview of the AAO)

Email Submission Address: jobs@aaoepp.aao.gov.au

Email Inquiries: director@aaoepp.aao.gov.au

Attention: Greta Simms, Recruitment Officer

AAO Director's Research Fellow

A\$63,751 to A\$68,924 p.a. plus employer superannuation contributions and removal expenses.

The Anglo-Australian Observatory (AAO) wishes to appoint a Research Fellow to work with the Director, Matthew Colless, on at least one of the following research programs: the 6dF Galaxy Survey of the local universe; the evolving relation between star-formation rate and HI gas content in moderate-redshift field and cluster galaxies; studies of the large-scale structure and acoustic oscillations from a survey of luminous red galaxies. The position will be based at the Epping Laboratory, in Sydney, about 25km from the centre of Sydney. Candidates must have a strong background in astronomy, astrophysics or a related branch of experimental physics.

The appointment will be for a period of three years, subject to a 6-month probationary period. The salary will be in the range \$A63,751 to \$A68,924 p.a. plus employer superannuation contributions and removal expenses. Applications should include a curriculum vitae, list of publications, a statement of proposed research programs and the names and addresses (including e-mail and phone) of three referees familiar with the applicant's work. The applicant must arrange for references to be sent before the closing date, which is 30 September 2004.

Further information about the position and the full text of the advertisement can be obtained from <http://www.aao.gov.au/local/www/jobs>

Questions about the position should be addressed to Matthew Colless, Director, AAO; Phone +61 2 9372 4811; Fax +61 2 9372 4880; e-mail: director@aaoepp.aao.gov.au ,

The Anglo-Australian Observatory is an Equal Opportunity Employer!

No. 20869

**Assistant Professor Astronomy & Astrophysics
FLORIDA INSTITUTE OF TECHNOLOGY**

Tel:

URL1: <http://www.fit.edu/pss>

Email Submission Address: search@pss.fit.edu

Email Inquiries: search@pss.fit.edu

Attention: Astronomy Search Committee

The Department of Physics and Space Sciences at The Florida Institute of Technology plans to hire an astronomer for the position of Assistant Professor with a start date as early as January 2005. Exceptionally qualified candidates may be considered for a more senior appointment or for a later start date.

Florida Tech is a private university located 40 miles south of the Kennedy Space Center. The Department has 15 full-time faculty and grants bachelor's, master's, and Ph.D. degrees in both Physics and Space Sciences. Of the approximately 160 undergraduate majors in the department, roughly half major in the Astronomy & Astrophysics option. Florida Tech is building a new campus observatory atop our new Physical Sciences Building to house a 0.6-m optical telescope. We are also the lead partner in the SARA Consortium which operates a 0.9-m remotely-accessible telescope on Kitt Peak National Observatory (see www.saraobservatory.org).

We seek an astronomer with a Ph.D. and postdoctoral experience. The new faculty member will be expected to carry out a vigorous, externally-funded research program including the supervision of graduate research projects, and to participate in the educational mission of the department. Applicants from all fields of astronomy and astrophysics will be carefully considered -- both observers and theorists are encouraged to apply. Information on departmental resources and research programs can be found at www.fit.edu/pss , or by directly contacting department faculty.

Interested applicants should submit a curriculum vitae including a list of publications, statements of research interests and teaching experience, and arrange to have three letters of reference sent to: Astronomy Search Committee, c/o Dr. Laszlo Baksay, Head, Department of Physics & Space Sciences, Florida Tech, Melbourne, FL 32901. Review of applications will begin 15 September 2004 and will continue until the position is filled. AAE/EOE.

No. 20870**Postdoctoral Research position in Particle Astrophysics****UNIVERSITY OF CHICAGO****5640 S. Ellis Ave****AAC 142****Chicago, IL 60637****USA****Tel: 773-702-8206****FAX: 773-702-8210****URL1: <http://www.uchicago.edu/>****(University of Chicago web site)*****Attention: Angela Olinto, Chair, Astronomy & Astrophysics***

The Department of Astronomy and Astrophysics invites applications for a Postdoctoral Research position in Particle Astrophysics. Applicants must have a degree PhD or with dissertation nearing completion by the beginning of the appointment. The position is for a period of one year with the possibility of renewal. To apply, please visit the University of Chicago's website.

The deadline for applications is August 31, 2004 and the expected date of appointment is October 1, 2004. Letters of application, including a cover letter, contact information and a complete resume/curriculum vitae of education and professional experience, should be sent to: Professor Angela Olinto, Dept. of Astronomy & Astrophysics, The University of Chicago, 5640 S. Ellis Ave., Chicago, IL 60637. In addition, applicants should arrange for having three letters of reference sent to the above address. Email Application will not be accepted. The University of Chicago is an Equal Opportunity Provider and Employer.

No. 20872**Assistant Professor-Department of Physics****UNIVERSITY OF LOUISVILLE****Louisville, KY 40292****USA****Tel:****FAX: (502) 852-0742**

URL1: <http://www.physics.louisville.edu/faculty-search>

Attention: Chair, Faculty Search Committee, Department of Physics

ASSISTANT PROFESSOR The Department of Physics of the University of Louisville invites applications for a tenure track, Assistant Professor position, beginning in the fall of 2005. We seek a person who will conduct research on problems in observational astrophysics. The successful candidate will have a Ph.D. in Astronomy or Physics, demonstrate a commitment to undergraduate and graduate teaching, and be expected to develop a research program that is competitive for external funding. For more information see www.physics.louisville.edu/faculty-search. Applicants are requested to arrange for the transmission of transcripts, three letters of recommendation, a current curriculum vita, and a statement of research and teaching interest to:

Chair, Faculty Search Committee, Department of Physics, University of Louisville, Louisville, KY 40292, FAX (502)852-0742.

Proof of eligibility for U.S. employment will be required prior to employment. Deadline for application is October 29, 2004. Women, African-Americans, and other minorities are especially encouraged to apply.

No. 20873

Postdoctoral Fellowship in Observational Cosmology

MCMASTER UNIVERSITY

Dept of Physics and Astronomy

Hamilton, ON L8S 4M1

Canada

Tel: 905-525-9140

FAX: 905-546-1252

URL1: <http://physwww.physics.mcmaster.ca/>

(Department Website)

URL2: <http://physwww.mcmaster.ca/%7Eharris/WEHarris.html>

(W.E.Harris homepage)

Email Submission Address: harris@physics.mcmaster.ca

Email Inquiries: harris@physics.mcmaster.ca

Attention: W. E. Harris, Professor

Applications are invited for a postdoctoral fellowship in observational cosmology at McMaster University, specifically in the area of early evolution of galaxies. The appointment will be for one year, renewable for a second year. The astrophysics group at McMaster currently has 7 highly active research faculty, 4 postdoctoral fellows, and 12 graduate students with excellent computational hardware and internal support. Group research areas cover a wide range of observational, theoretical, and computational astrophysics including star formation, star clusters, galactic structure, nearby galaxies and stellar populations, formation of planetary systems, simulations of the early universe and large-scale structure, and others.

The fellowship will carry an annual salary of C\$40,000 in addition to full support for conference

travel, observing runs, and publication costs. Candidates should possess a Ph.D. in astronomy or astrophysics. Please send a curriculum vitae including publication list and brief research statement, and arrange for three letters of reference to be sent to Dr. William E. Harris. Applications can be sent by post or e-mail to harris@physics.mcmaster.ca. Send ascii, pdf, or postscript format only please. To receive full consideration, applications should be received before September 30, although the advertisement will remain open until the position is filled.

No. 20874**Postdoctoral Research Fellow****CALIFORNIA INSTITUTE OF TECHNOLOGY/JET PROPULSION LABORATORY****1200 E. California Blvd.****MS 220-6****Pasadena, CA 91125****USA****Tel: 626-395-8796*****Attention: Dr. Sean Carey***

A postdoctoral position in infrared/submm/millimeter astronomy is available at the Spitzer Science Center located on the California Institute of Technology campus in Pasadena, California. The successful applicant will work with Dr. Sean Carey studying infrared-dark clouds under a NASA Long Term Space Astrophysics grant. The research will involve infrared/submm/mm observations of embedded sources and the dense cores of infrared-dark clouds including a measurement of the opacity at mid-infrared wavelengths and characterization of the protostellar content of these objects.

Preference will be given to candidates with experience in infrared, submillimeter or millimeter observations and/or the physics of star formation and the dense ISM. It is preferred that the successful applicant start in the early fall. The term of the position is two years.

Qualified candidates must have a PhD prior to starting the position. Applicants should submit a curriculum vitae, list of publications, and names and contact information of three references to Dr. Carey at the above address by 2 September 2004 to receive full consideration.

Caltech is an Affirmative Action/Equal Opportunity Employer. Women, Minorities, Veterans, and Disabled Persons are encouraged to apply.

No. 20881**Staff Scientists****CALIFORNIA INSTITUTE OF TECHNOLOGY****770 So. Wilson Ave.****MS 100-22****Pasadena, CA 91125****USA****Tel:****URL1: <http://www.ipac.caltech.edu>****Email Inquiries: reach@ipac.caltech.edu*****Attention: Mary Ellen Barba, Supervisor of Staff Operations***

The Spitzer Science Center (SSC) at IPAC has several openings for scientists with expertise in observational astrophysics or instrumentation, especially infrared or space-based, to participate in Spitzer science operations. Openings are available on the Staff or Research Scientist tracks, starting Fall 2004. Successful applicants will work with other SSC scientists, engineers, and observers in order to maximize the astronomical return of the Spitzer mission. Tasks may include supporting proposal calls, documentation, data analysis algorithm development, and general support of the community use of the Spitzer Space Telescope. The currently available positions are in the Observer Support Team, which provides the main interface between the astronomical community and the SSC, and in the Infrared Spectrometer (IRS) support team. Successful applicants will also carry out a program of independent research, generally aligned with Spitzer and/or other missions supported by IPAC. A Ph.D. in Physics, Astronomy, or related discipline, and two years post-doctoral experience are required. A background in infrared astronomy, and experience in the reduction and analysis of data from one or more space astronomy missions are desirable. Excellent communication skills (oral and written) and ability to work in a team environment are required. To apply, send a letter of application, a curriculum vitae, and publication record, to the address above no later than 30 September 2004. Three letters of reference must be mailed to the same address; applications are not considered complete until the letters have been received. Candidates who have previously applied for a position at the SSC should send a new application letter and may request new letters of reference or request that we use the previous ones (if within the last 2 years). You may send inquiries about the position to: reach@ipac.caltech.edu. All applications must be sent to the address above. Caltech is an Affirmative Action/Equal Opportunity Employer. Women, Minorities, Veterans, and Disabled Persons are encouraged to apply.

No. 20882**Postdoctoral Research Fellow in Extragalactic Astronomy****UNIVERSITY OF NOTTINGHAM****School of Physics and Astronomy****University Park****England****Tel:****URL1: <http://www.nottingham.ac.uk/physics/>****(School of Physics and Astronomy)****URL2: <http://www.ukidss.org>****(UKIDSS Survey)****Email Submission Address: omar.almaini@-NOSPAM-nottingham.ac.uk****Email Inquiries: omar.almaini@-NOSPAM-nottingham.ac.uk*****Attention: Omar Almaini, Dr***

Postdoctoral Research Fellow in Extragalactic Astronomy

University of Nottingham

Applications are invited for the above post in the School of Physics and Astronomy to work with Dr Omar Almaini on multiwavelength studies of high redshift galaxies. In particular, the successful candidate will be expected to spend a substantial fraction of their time exploiting data obtained from the UKIDSS Ultra-Deep Survey (see: <http://www.ukidss.org>). The aim is to

understand the formation and evolution of massive elliptical galaxies. Candidates must have a relevant PhD.

Salary will be within the range £18,893 - £28,279 per annum, depending on qualifications and experience. This post will be offered on a fixed-term contract for a period of two years.

Informal enquiries may be addressed to Dr Almaini, Email: Omar.Almaini@-NOSPAM-Nottingham.ac.uk .

Candidates should send a detailed CV and publication list, together with the names and addresses of two referees, to Dr O Almaini, School of Physics and Astronomy, The University of Nottingham, University Park, Nottingham, NG7 2RD. Closing date: 31 August 2004.

No. 20886

Full Professorship in Stellar Systems/Extragalactic Astrophysics or Stellar Physics

UNIVERSITAET KIEL

Olshausenstrasse 40

Kiel, D 24118

Germany

Tel: +49 431 8802128

FAX: +49 431 8802320

URL1: <http://www.astrophysik.uni-kiel.de>

(institute home page)

Attention: Dekan der Mathematisch-Naturwissenschaftlichen Fakultät

The Christian-Albrechts-Universitaet zu Kiel invites applications for the position of Full Professor (C4/W3) for Astrophysics in the Institut fuer Theoretische Physik und Astrophysik of the Faculty for Mathematics and Natural Sciences. The position is available immediately and to be filled at the earliest possible time.

Applicants should represent the fields of Stellar Systems/Extragalactic Astrophysics or Stellar Physics in teaching and research. Common research interests with other groups in Kiel (e.g. Extraterrestrial Physics, Plasma Physics, Computational Physics) would be an advantage, as well as interest in using the good computational facilities in the institute and at the university.

Applicants should have the "Habilitation" or equivalent scientific experience beyond the PhD. They are expected to also take part in the teaching of physics to undergraduate students, and should be able to teach physics and astrophysics classes in English language.

The university aims at increasing the number of female scientists on the faculty and strongly encourages qualified women to apply.

Preference will also be given to handicapped applicants if qualifications are equal.

Applications with the usual documents and including a research perspective for Kiel should be sent to the

Dekan der Mathematisch-Naturwissenschaftlichen Fakultät der

Christian-Albrechts-Universitaet zu Kiel

Olshausenstrasse 40

24118 Kiel

Germany

no later than October 1, 2004 (deadline for *receipt* of applications)

No. 20887

Planetary Science/Instrumentation

UNIVERSITY OF CALIFORNIA

601 Campbell Hall

Berkeley, CA CA 94720

USA

Tel: 510-642-1947

FAX: 510-642-3411

Email Submission Address: imke@berkeley.edu

Email Inquiries: imke@berkeley.edu

Attention: Imke de Pater, prof.

Postdoctoral Research Position University of California at Berkeley Department of Astronomy & Space Science Lab.

Applications are invited for a full-time postdoctoral research appointment with CIPS (Center for Integrative Planetary Science) in the Department of Astronomy and the Space Science Laboratory at the University of California at Berkeley. Salary \$38,652 - \$46,056. Start date is negotiable (preferred Fall 2004). The duration of the position is for 2 years, with a possible renewal for a third year and contingent on funding and eligibility for employment in U.S.A. The Successful applicant will work in the field of Planetary Science (observational) and instrument development (for spacecraft). Required qualifications: a Ph.D. in Astronomy, Physics, Chemistry or Geophysics. Preferred: experience in (infrared) instrumentation, data reduction and analysis.

Please submit a resume, brief summary of previous research and current interests, summary of instrumentation, observing and data analysis experience, list of publications, and copies of two recent publications (preprints or reprints) by Sep. 15, 2004, to: Prof. Imke de Pater, 601 Campbell Hall, University of California, Berkeley CA 94720. Include the names of three references.

No. 20888

SOLIS Post Doctoral Research Assistant

NATIONAL OPTICAL ASTRONOMY OBS/NATIONAL SOLAR OBSERVATORY

950 North Cherry Ave

Tucson, AZ 85719

USA

Tel: 520-318-8100

FAX: 520-318-8456

Email Inquiries: hrnoao@noao.edu

Attention: NOAO/NSO Human Resources Manager, Position #670

SOLIS Post Doctoral Research Assistant Tucson, Arizona

The National Solar Observatory (NSO) has an immediately available postdoctoral research position to investigate solar photospheric vector and chromospheric longitudinal magnetic fields using the SOLIS vector spectromagnetograph recently installed on Kitt Peak. The researcher will be part of a team that is exploiting the unique abilities of the new instrument to characterize the solar vector magnetic field with emphasis on applications of potential use for space weather forecasting. The position is initially for one year and is renewable for at least two additional years contingent upon performance and continued funding.

The scientist will initially work on data reduction and calibration methods, construction of synoptic maps based on components of the vector magnetic field, a search for magnetic changes associated with coronal mass ejections and other explosive events, and a general characterization of the properties of solar vector fields. Subsequent years will focus on development and implementation of methods to measure non-potential magnetic energy and magnetic helicity fluxes, integration of vector and chromospheric magnetic field data, and development, testing, and refinement of solar activity forecasting algorithms. Close collaborations with the Solar-B and STEREO missions are anticipated.

A PhD in astrophysics, physics, applied mathematics, or a closely related field, or equivalent experience is required. Experience using Unix, C, IDL or similar operating systems and data-handling programs is essential. Experience with large scientific data processing systems and with team-oriented working environments is desirable.

Hiring preference is given to qualified Native Americans living on or near the Tohono O'Odham reservation.

We value and foster a diverse research environment. Women and underrepresented minorities are strongly encouraged to apply.

NSO is an affirmative action/equal employment employer.

Applications will be accepted until the position is filled

To apply, please submit an electronic CV and three professional letters of reference to hrnoao@noao.edu, in the subject line reference SOLIS Post Doctoral Position #670 or mail to:

Human Resources Manager National Optical Astronomy Observatory/National Solar Observatory
ATTN: SOLIS Post Doctoral Position #670 P.O. Box 26732 Tucson, AZ 85726-6732

No. 20889

Jansky Fellowships 2005

NATIONAL RADIO ASTRONOMY OBSERVATORY

**520 Edgemont Road
Charlottesville, Virginia 22903
USA**

Tel:

URL1: http://www.nrao.edu/administration/directors_office/

Attention: Director's Office

Jansky Fellowships 2005

The National Radio Astronomy Observatory (NRAO) announces the 2005 postdoctoral Jansky Fellowship program that provides outstanding opportunities for research in astronomy. The Jansky Fellows formulate and carry out investigations either independently or in collaboration with others within the wide framework of interests of the Observatory. Prior radio experience is not required and multi-wavelength projects leading to a synergy with NRAO instruments are encouraged. The NRAO also encourages applications from candidates with interest in radio astronomy instrumentation, computation, and theory.

The starting salary will be \$48,000 per year with an appointment duration of two years that may be renewed for a third year. There is a research budget of \$7,000 per year for travel and computing requirements. In addition, page charge support, as well as vacation accrual, health insurance, and a moving allowance are provided.

Up to three appointments will be made annually for positions at any of the NRAO sites (Socorro, NM; Green Bank, WV; and Charlottesville, VA). The Jansky Fellows are encouraged to spend time at universities working with collaborators during the course of their fellowship. In addition, up to three Jansky Fellow appointments will be made annually for positions that may be located at a US university or research institute. Frequent and/or long term visits to the NRAO sites are encouraged.

The NRAO web site at http://www.nrao.edu/administration/directors_office/jansky-postdocs.shtml provides a description of the application process and other relevant details. The candidates must receive their PhD prior to beginning the appointment.

The deadline for applications and letters of recommendation is November 15, 2004. The NRAO is an equal opportunity employer (M/F/H/V).

No. 20890

**Star and Planet formation, Adaptive Optics
MAX-PLANCK-INSTITUTE FOR ASTRONOMY
Koenigstuhl 17**

D - 69117 Heidelberg, Germany 69117

Germany

Tel: 0049 6221 528283

FAX: 0049 6221 528373

URL1: <http://www.mpia.de>

Email Submission Address: feldt@mpia.de

Email Inquiries: feldt@mpia.de

Attention: Personnel Department

The Max Planck Institute for Astronomy is looking for a PhD student to support its adaptive optics group integrating a novel wave front sensor system, accompany it to the telescope and organize and conduct an observing programme targeting the problem of massive star formation.

The pyramid wave front sensor is in the phase awaiting integration in MPIA's laboratory. After this, it will be attached to the ALFA adaptive optics (AO) system at the 3.5m telescope on Calar Alto (Spain) and extensive tests, characterizations, and science programmes are to be carried out. The thesis will also comprise the organization of a science programme with the upgraded AO, concentrating on observations of high-mass star forming regions. Primary astrophysical goal of the thesis is to track the very early development of massive young stars in terms of radiative luminosity, ionizing (Lyman continuum) radiation emission, spectral properties, and their typical environment (companions, ionized regions).

The Max Planck Institute for Astronomy (MPIA) in Heidelberg and its department for planet and star formation are engaged in forefront research in the fields of both state-of-the-art wavefront sensing and massive star formation. The environment in Heidelberg with its university, its research and technology institutions, and a total of 4 astrophysical institutes plus a number of attached groups at various institutions is extremely stimulating to the interested applicant. The ideal candidate would have extensive knowledge / experience in (astronomical) optical setups, and a strong interest in the field of (massive) star formation and high-resolution, near- and mid-infrared observations.

Starting date is October, 01, 2004. The position is initially limited to a 2 years contract with a possible extension of 1 year. Salary will be according to the Max-Planck-guidelines for scholarshipholders . The Max Planck Society is an equal opportunity employer and encourages disabled persons to apply. It also aims at increasing the number of female staff members in fields where they are underrepresented, and therefore encourages women to apply. More detailed information is available at <http://www.mpia.de> .

For further information please contact Markus Feldt, E-Mail: feldt@mpia.de , Phone +49 6221 528262, Fax + 49 6221 528373 Applications should be addressed by, September 5, 2004 to

Max-Planck-Institut for Astronomy, Personnel Department (06-04), Koenigstuhl 17, D - 69117 Heidelberg, Germany

No. 20911
Tenure Track Astronomer Positions
NATIONAL RADIO ASTRONOMY OBSERVATORY
520 Edgemont Road
Charlottesville, Virginia 22903
USA
Tel:
URL1: <http://www.nrao.edu>
(Home page)

Attention: Director's Office

Tenure Track Astronomer Positions -- National Radio Astronomy Observatory

The National Radio Astronomy Observatory (NRAO) invites outstanding applicants for tenure track astronomer positions. In the next few years, the NRAO expects to make one or two appointments per year. Appointments are not restricted to radio astronomers.

Research areas of interest include cosmology and the early universe, dark energy and dark matter, the Cosmic Microwave Background, thermal and kinetic SZ effects, structure formation, the epoch of re-ionization, formation and evolution of galaxies and clusters of galaxies, gravitational lensing, active galactic nuclei and compact objects, pulsars and GRB's, the interstellar and intergalactic medium, formation of stars and planets, solar system astrophysics, astrochemistry and astrobiology. Both observers and theorists are encouraged to apply, and experimentalists are also welcome. Women and minorities are especially encouraged to apply. The NRAO will help explore employment opportunities for spouses.

With the expected turnover in senior scientific staff over the next five to ten years, the NRAO will aim to recruit new staff members who will lead at the frontiers of Astronomy and Astrophysics. Appointments will be considered for Charlottesville, VA, where the North American ALMA Science Center (NA-ASC) operated by the NRAO is located; for Green Bank, WV, site of the 100-m GBT; and for Socorro, NM, the Operations Center for the Very Large Array (eventually EVLA) and the Very Long Baseline Array.

The candidates should have a PhD in astronomy, physics, or a related field, and a plan of active independent research. Besides maintaining a vigorous program of individual research, all members of the NRAO scientific staff are expected to contribute to the operation and future development of the Observatory to provide cutting edge facilities for the astronomical community.

The appointment is for an initial period of three years, renewable and with the possibility of eventual tenure, in a system parallel to that in a research university. In exceptional cases, a more senior initial appointment can be considered.

Applications should include a statement of research interests and plans, a curriculum vitae including a publication list, and the names of five scientists who have agreed to send in letters of reference. The application and letters of reference should be sent to: Director's Office, NRAO, 520 Edgemont Road, Charlottesville, VA, 22903, USA. For full consideration, applications should be received by December 1, 2004.

The NRAO is operated by Associated Universities Inc. (AUI) under cooperative agreement with the National Science Foundation. The NRAO is an equal opportunity employer.

No. 20933
Research Scientist II
UNIVERSITY OF NEW HAMPSHIRE
Tel:
URL1: <http://www.unhjobs.com>

Attention: Mary Ann O'Neil

UNIVERSITY OF NEW HAMPSHIRE RESEARCH SCIENTIST II

The High Energy Astrophysics group at the University of New Hampshire (a component of the Space Science Center within the Institute for the Study of Earth, Oceans, and Space) is seeking a research scientist to participate in the design and development of various astronomical gamma-ray and cosmic-ray experiments. Activities will include hardware fabrication and testing; computer simulations of detector designs; and data analysis from various astronomical gamma-ray and cosmic-ray experiments. Minimum qualifications: Ph.D. in experimental physics or astrophysics, with 3 years post-graduate experience; experience in all aspects of the development of high-energy astronomical radiation detectors, including the design, simulation, fabrication, and testing for both balloon-borne and space-based detectors; experience in the operations of balloon-borne gamma-ray experiments and in the analysis and interpretation of data obtained from balloon-borne gamma-ray experiments. Starting position and salary will be commensurate with experience. Applicants interested in applying for UNH positions must apply online at www.unhjobs.com. Cover letter, curriculum vitae and the names, addresses and telephone numbers of three references must be electronically attached with application. Professor Mark McConnell will start review of resumes on September 1, 2004 and will continue until position is filled. UNH is committed to excellence through the diversity of its faculty and staff and encourages women and minorities to apply.

No. 20936

MIT Pappalardo Fellow in Physics

MIT

77 Mass. Ave.

Bldg 6-113

Cambridge, MA 02139

USA

Tel: 617-253-4800

FAX: 617-253-8554

URL1: http://web.mit.edu/physics/newsandevents/pappalardo_competition_05.html

(2005-08 MIT Pappalardo Fellowships)

Email Submission Address: breen@mit.edu

Email Inquiries: breen@mit.edu

Attention: Carol Breen, Comm & Pappalardo Fellowships Program Admin

Faculty and senior researchers within the international community of physics, astronomy or related fields are invited to nominate candidates for the 2005-08 MIT Pappalardo Fellowships in Physics competition.

Nominees must be men or women of exceptional ability who currently have or will have received a doctoral degree in physics, astronomy or related fields by September 1, 2005.

Nominations may be submitted on-line at

http://web.mit.edu/physics/newsandevents/pappalardo_nomination_form_05.html . An application form and instructions will be mailed to nominees on a rolling basis until the nomination deadline of FRIDAY, SEPTEMBER 17, 2004.

The MIT Pappalardo Fellowships in Physics program recruits and supports the most talented

and promising physicists at an early stage in their careers. Each year, three new Fellows are selected for the three-year fellowship appointments. All Pappalardo Fellows are provided with:

--fully independent, unrestricted choice of research direction within the MIT Department of Physics throughout their three-year fellowship appointment;

--active faculty mentoring fostered by weekly luncheons and monthly dinners with the Department's faculty throughout the academic year;

--a competitive annual stipend with an annual cost-of-living increase, combined with \$5,000 per year in discretionary research funds [first-year Fellows for the 2005-06 academic year will receive an annual stipend of \$56,000]; and

--health insurance coverage for themselves and their dependents.

Note that in order to participate in the MIT Pappalardo Fellowships competition, a candidate can ONLY be nominated by a faculty member or senior researcher within the international community of physics, astronomy or related fields. The Fellowships office will NOT accept any materials sent by a self-nominated applicant.

No. 20937

**Hubble Postdoctoral Fellowships
SPACE TELESCOPE SCIENCE INSTITUTE**

Tel:

Email Submission Address: hfellows@stsci.edu

Email Inquiries: hfellows@stsci.edu

Attention: Michael Fall

SPACE TELESCOPE SCIENCE INSTITUTE 3700 San Martin Drive Baltimore, MD 21218
Email Inquiries: hfellows@stsci.edu URL: <http://www.stsci.edu/institute>

Attention: Dr. Michael Fall, Hubble Fellowship Program

The Space Telescope Science Institute announces the continuation of the Hubble Fellowship Program and solicits applications for fellowships to begin in the fall of 2005. This program provides opportunities for postdoctoral research on problems that are broadly related to the scientific mission of the Hubble Space Telescope. Theoretical, observational, and instrumental research are supported. The program is open to applicants of any nationality, who have earned (or will have earned) their doctoral degrees on or after January 1, 2002, in astronomy, physics, or related disciplines. The fellowships are tenable at U.S. host institutions where HST-related research can be carried out. The duration of a fellowship is up to three years: an initial one-year appointment and two annual renewals contingent on satisfactory performance and availability of NASA funds. It is anticipated that about 12 new Hubble Fellows will be appointed this year. There is a limit of one new Hubble Fellow per host institution.

The Announcement of Opportunity, which includes program policies, application instructions, and forms, is available at the STScI website, <http://www.stsci.edu/institute>. Applicants must follow the detailed instructions given in this Announcement.

The application deadline is Monday, October 11, 2004. Offers will be made before February 1, 2005, and new appointments are expected to begin on or about September 1, 2005. Women and members of minority groups are strongly encouraged to apply. EOE/AA/M/F/D/V.

No. 20938
INSTITUTE POSTDOCTORAL FELLOWSHIP
SPACE TELESCOPE SCIENCE INSTITUTE
3700 San Martin Drive
Baltimore, MD 21218
Tel:
Email Inquiries: fall@stsci.edu

Attention: Michael Fall

Applications are invited for the Space Telescope Science Institute Fellowship. This fellowship provides up to three years of support for outstanding postdoctoral researchers in any field of astronomy, astrophysics, or planetary science. The research may be theoretical, observational, or instrumental. The fellowship includes an annual salary of approximately \$48,000 and annual funds of \$14,000 to cover research expenses. The selection will be based on the accomplishments and proposed research of the applicants. There are no restrictions on citizenship.

Applications must include three copies each of the following materials: a signed cover letter, a curriculum vitae, a list of publications, a summary of previous and current research (limited to 3 pages), and a description of the proposed research to be carried out at STScI (also limited to 3 pages). These should be sent to Dr. Michael Fall, Postdoctoral Program, Space Telescope Science Institute, 3700 San Martin Drive, Baltimore, MD 21218 (hardcopy required). Applicants must also arrange for three letters of reference to be sent to the same address (hardcopy preferred).

Applications and letters of reference received by Monday, November 15, 2004 will receive full consideration. The offer of appointment will be made before February 1, 2005; the appointment itself is expected to begin on or about September 1, 2005. Inquiries about this fellowship may be directed to Dr. Fall (410-338-4833, fall@stsci.edu).

The Space Telescope Science Institute is operated by the Association of Universities for Research in Astronomy, and is an affirmative action, equal opportunity employer. Women and members of minority groups are strongly encouraged to apply. EOE/AA/M/F/D/V

No. 20939
Postdoctoral Position in Cosmology/Supernova Physics
UNIVERSITY OF COPENHAGEN
Niels Bohr Institute
Juliane Maries Vej 30
Denmark
Tel: +45 3532 5928
FAX: +45 3532 5989
URL1: <http://www.astro.ku.dk>
Email Submission Address: jens@astro.ku.dk

Email Inquiries: jens@astro.ku.dk, jfynbo@astro.ku.dk

Attention: Jens Hjorth, Professor

The Niels Bohr Institute (Univ. Copenhagen) has an opening for a postdoctoral fellow to pursue observational and/or theoretical research into the nature and use of cosmic lighthouses (gamma-ray bursts, supernovae, quasars, clusters of galaxies). The candidate will join the research group of Jens Hjorth, Johan Fynbo and postdocs. We are especially interested in strengthening our research on supernovae (low-redshift supernovae with Swift, very high-redshift hypernovae, dust from supernovae) but strongly encourage any interested candidates to apply. The group is active in several international networks including EU research training networks on gamma-ray bursts (<http://www.gammaraybursts.org>) and gravitational lenses (<http://www.angles.eu.org>).

The postdoctoral fellowship is for 2 years with the possibility of extension depending on available funding. A PhD degree and relevant research experience are required. The annual salary will be about 45,000 Euro + 16.8 % contribution to a pension scheme. Please send CV, research plan (1-3 pages), and the names and coordinates of three referees.

Applications will be considered until at least October 1 and until the position is filled.

No. 20940

**TENURE TRACK POSITION IN OBSERVATIONAL HIGH ENERGY ASTROPHYSICS
ASTRONOMICAL INSTITUTE 'ANTON PANNEKOEK', FACULTY OF SCIENCE,
UNIVERSITY OF AMSTERDAM**

Kruislaan 403

Amsterdam, Netherlands 1098SJ

The Netherlands

Tel: +31-20-5257491

FAX: +31-20-5257484

URL1: <http://www.astro.uva.nl>

(Institute web page)

Email Submission Address: secr-astro@science.uva.nl

Email Inquiries: rwijers@science.uva.nl, michiel@science.uva.nl

Attention: Mrs. L. Stolte, Business Manager

Requirements for this position are a PhD, an outstanding research record in observational high-energy astrophysics and teaching abilities. The candidate is expected to develop an internationally competitive research program based on space- and ground-based instrumentation (e.g., XMM/Chandra/RXTE/VLT/WSRT) embodying their own primary research interests yet with strong links to other HEAp research at the Institute, and will participate in teaching and administration.

The Institute is a major partner in LOFAR, responsible for the key project on radio transient searches, and we are particularly interested in a person who can strengthen our role therein.

High-energy astrophysics research in Amsterdam focuses on compact objects, in particular X-

ray binaries, radio pulsars and gamma-ray bursts. Other research areas include star formation and circumstellar matter. There is competitive access to outstanding observing and computational facilities as well as funding. The institute has a dozen staff, about 20 PhD students and 10 postdocs and is characterized by an open, interactive and cooperative spirit.

This "universitair docent" (assistant professor) appointment is tenure-track, with a tenure decision after two years. Gross monthly salary is between EUR 2934,- and EUR 4027,- depending on experience. Applications are considered until at least September 15, 2004. Include a CV, a statement of research interests, a bibliography and the names of three references. The candidate should speak and write Dutch or learn this within three years. Women are encouraged to apply to this position.

No. 20941**Tenure-track Junior Faculty Position in Astrophysics****UNIVERSITY OF CHICAGO****5640 S. Ellis Ave.****Chicago, IL 60637****USA****Tel: 773-702-8206****FAX: 773-702-8210****URL1: <http://astro.uchicago.edu/>****(Department home page)****Email Inquiries: jmsmith@oddjob.uchicago.edu*****Attention: Angela V. Olinto, Chair***

The Department of Astronomy & Astrophysics of the University of Chicago expects to have a faculty position at the Assistant Professor level beginning in Fall 2005. (Exceptional candidates at a more senior level could be considered). The primary research themes in our Department are: Fundamental aspects of cosmology, birth and evolution of galaxies and clusters, star and planet formation, and multi messenger astronomy (gamma rays, cosmic rays, dark matter, and neutrinos). The Department has scientific efforts in a wide range of projects including: SDSS, SZA, SOFIA, SPT, VERITAS, Auger Project, ASC / Alliances Center for Astrophysical Thermonuclear Flashes. Department members play major roles in the Kavli Institute for Cosmological Physics at Chicago. The Department is also a 25% partner in the 3.5-meter ARC. Theorists, observers, and instrumentalists are encouraged to apply.

Completed applications received by November 15, 2004, will be given full consideration. Applicants should send a CV, list of publications, and a description of their research to the address below, and should arrange for three letters of recommendation to be sent directly to the same address: Professor Angela Olinto, Chair, Department of Astronomy & Astrophysics, The University of Chicago, 5640 S. Ellis Avenue, Chicago, IL 60637-1433. The University of Chicago is an equal opportunity/affirmative action employer.

No. 20942**Project Management Administrator****NATIONAL SCIENCE FOUNDATION****4201 Wilson Blvd.****Arlington, VA 22230**

USA**Tel: 703-292-4895****FAX: 703-292-9034****URL1: <http://www.nsf.gov/jobs>****Email Submission Address: efriel@nsf.gov****Email Inquiries: efriel@nsf.gov*****Attention: Dr. Eileen Friel, Executive Officer, AST***

DIVISION OF ASTRONOMICAL SCIENCES National Science Foundation, Arlington, VA

NSF's Division of Astronomical Sciences is seeking qualified applicants for the position of Project Management Administrator. The incumbent will serve as a key member of the Astronomy Division's management team and will be responsible for project management of facilities and large projects supported by the Division. Responsibilities include overseeing the administrative actions on the Division's grants and cooperative agreements. The position also carries responsibility for the supervision of the administrative staff in the Division and the coordination and integration of all the Division's administrative components. The position will be filled on a permanent basis to commence in late 2004. The salary range, which includes locality pay adjustment, is from \$50,593 to \$93,742 per annum. Applicants must have a Master's degree in business administration, or other related field plus two or more years of successful research, research administration, and/or managerial experience pertinent to the position; or equivalent experience. Announcement E20040100, with position requirements and application procedure, is located on the NSF Home Page at www.nsf.gov/jobs. Applicants must submit a resume and application, up to three letters of recommendation, and a narrative statement that addresses your background and/or experience related to the position to the above address. Applicants should refer to vacancy announcement number E20040100. Telephone inquiries may be referred to Jeanette Dale at 703-292-4343. For technical information, contact Dr. Eileen D. Friel, Executive Officer, 703-292-4895. Hearing impaired individuals may call 703-292-8044. NSF is committed to employing a highly qualified staff that reflects the diversity of our Nation. AAE/EOE.

No. 20943**Lectureship in Astronomy****UNIVERSITY OF NOTTINGHAM****University Park****United Kingdom****Tel:****URL1: <http://www.nottingham.ac.uk/hr/vacancies/academic.html>*****(Further details and application forms)*****URL2: <http://www.nottingham.ac.uk/physics>*****(Departmental information)*****Email Inquiries: michael.merrifield@nottingham.ac.uk*****Attention: Lectureship in Astronomy, ref. RUB/628S, Human Resources Department***

As part of an ongoing commitment to excellent research in astronomy, applications are invited for the above permanent post in the School of Physics and Astronomy at the University of

Nottingham.

The Astronomy group at Nottingham currently comprises six permanent staff, five postdoctoral researchers and 12 research students. Its research programme is focused on extragalactic astronomy and cosmology, with particular emphasis on galaxy formation and evolution, and the large-scale structure of the Universe. A Lecturer is required whose research interests overlap or complement this existing activity. Our research encompasses the full spectrum of observation, data analysis, large-scale computer simulation and analytic theory, so candidates with either observational or theoretical expertise (or both) are encouraged to apply.

The successful candidate will also be expected to contribute effectively to teaching in the School, which has buoyant student numbers and an innovative teaching and learning strategy.

Candidates must have a PhD in astronomy or a related subject.

Salary will be within the range £22,954 - £34,838 per annum, depending on qualifications and experience. This post is available from 1 February 2005 or as soon as possible thereafter.

Please quote ref. RUB/628S in all correspondence. Applications must use the application forms available from the Human Resources Department. Closing date for receipt of applications is 1 October 2004.

No. 20944

Two Tenure-Track Positions in Astronomy

UNIVERSIDAD DE VALPARAISO

Av. Gran Bretana 1091, Playa Ancha

Casilla 5030

Chile

Tel: +56 32 508012

FAX: +56 32 508089

URL1: <http://www.fismet.uv.cl>

(Department of Physics and Meteorology)

Email Submission Address: sylvia.diez@uv.cl

Email Inquiries: sylvia.diez@uv.cl

Attention: Ms. Sylvia Diez, Academic Secretary, Science Faculty

Two Tenure-Track Positions UNIVERSIDAD DE VALPARAISO Departamento de Fisica y Meteorologia Facultad de Ciencias Casilla 5030, Valparaiso Chile Tel: 56-32-508012 FAX: 56-32-508089 URL: <http://www.fismet.uv.cl> Email Submission Address: sylvia.diez@uv.cl Email Inquiries: sylvia.diez@uv.cl

Attention: Sylvia Diez, Academic Secretary We are offering two faculty positions in astronomy at all levels (Assistant, Associate or Full Professor) at the Universidad de Valparaiso, Chile. One appointment is expected to start in November of 2004 and the other in March, 2005. The position will be initially for a period of 2 years, with the possibility to be extended to a permanent position afterwards.

The successful candidates should have a strong commitment to scientific research. They will

also be involved in developing an Astronomy Group in our Department.

Teaching duties concern physics and astronomy courses at undergraduate and graduate levels. Fluency in Spanish will be an advantage and will be expected after an initial period of about one year.

The successful candidates will have access to the 10 percent of Chilean observing time at all telescopes operating in Chile, including the VLT, Gemini South, SOAR, Magellan telescopes on Las Campanas and ALMA. We encourage applications from all areas of astronomy, including theory.

Applications should include a curriculum vitae, a discussion of relevant experience and research interests, publication list and two letters of recommendation. Application forms must be requested by email to Mrs. Sylvia Diez (sylvia.diez@uv.cl), academic secretary of the Faculty of Sciences.

Complete applications should be received by 15 September, 2004.

No. 20945

Postdoctoral Research Fellow

CALIFORNIA INSTITUTE OF TECHNOLOGY/JET PROPULSION LABORATORY

Tel: 818-354-7264

Email Submission Address: stern@zwofkinder.jpl.nasa.gov

Email Inquiries: stern@zwofkinder.jpl.nasa.gov

Attention: Daniel Stern, Staff Scientist

Postdoctoral Research Fellow/Spitzer Science Center/California Institute of Technology/Jet Propulsion Laboratory

The Spitzer Science Center at the California Institute of Technology has an opening for a postdoctoral research associate working with Drs. Daniel Stern and Mark Lacy to actively participate in the reduction, analysis, and publication of a comprehensive Spitzer Space Telescope study of high-redshift radio galaxies, the most massive galaxies at every redshift. This extensive mid-infrared survey uses data from all three Spitzer Space Telescope cameras, and is fortified by substantial ground- and space-based data. The successful applicant will also be encouraged to work on related multi-wavelength studies of obscured AGN.

Candidates should possess a strong background in observational astronomy with a proven ability to conduct independent research. Experience with radio, mid-infrared, and X-ray data is preferred. A Ph.D. in astronomy or physics is required. The appointment will be for 1 year, with the potential for renewal for up to two more years, contingent upon funding being available.

Applicants should submit a curriculum vitae, a list of publications, a statement of research interests, and a list of three references to be contacted for recommendation letters. Application material should be sent to stern@zwofkinder.jpl.nasa.gov. The application deadline is September 1, 2004.

No. 20946

Research Associate/Scientist
MCDONALD OBSERVATORY - UT AUSTIN
1 University Station C1402
Austin, Texas 78712-0259
USA
Tel: 512/471-1471
FAX: 512/471-1635
URL1: <http://www.as.utexas.edu/mcdonald/mcdonald.html>
URL2: <http://www.as.utexas.edu/mcdonald/jobs/jobs.html>
URL3: <http://www.utexas.edu/hr/empl>
Email Submission Address: [no email submission](#)
Email Inquiries: anita@barolo.as.utexas.edu

Attention: Anita Cochran, Asst. Director

The University of Texas McDonald Observatory seeks highly qualified applicants for the position of Research Associate/Scientist. We especially seek candidates with demonstrated skills in the use of optical fibers or optical design for astronomical applications. The successful candidate will join a group of astronomers and engineers designing and building instruments at the request of the Director for the telescopes in west Texas including the 9.2m Hobby-Eberly Telescope, and other telescopes. The Observatory anticipates participation in the Giant Magellan Telescope.

The successful candidate will reside in Austin, TX but will be expected to travel to McDonald Observatory near Ft. Davis in far west Texas. The position carries with it 25% time for personal research, with full access to the telescopes in west Texas. Exact job title will be dependent on review of research qualifications and professional experience and qualifications.

Required Qualifications: PhD in Astronomy or equivalent field and 3 years of experience in scientific research, instrument or telescope design, construction, and commissioning. Preferred Qualifications: Experience in the use of optical fibers or optical design for astronomical applications is highly desirable.

Interested applicants should send a resume, statement of interest and the names of at least three professional references to: Anita Cochran, Asst. Director, McDonald Observatory, The University of Texas at Austin, McDonald Observatory, 1 University Station C1402, Austin, TX 78712, email: anita@astro.as.utexas.edu . Applications due: 10/27/2004; Job #04-07-14-01-0702. The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer. Security sensitive position, criminal background check will be conducted on applicant selected.

No. 20947
Research Fellow, Theoretical Astrophysics and Cosmology
UNIVERSITY OF SUSSEX
Sussex House, University of Sussex,
Falmer
UK
Tel: 01273 678706
FAX: 01273 877401
URL1: <http://astronomy.susx.ac.uk/index.html>

(Further information about research group)

URL2: <http://www.susx.ac.uk/central/jobs>

(University website)

Email Submission Address: recruitment@sussex.ac.uk

Email Inquiries: p.a.thomas@sussex.ac.uk

Attention: Human Resources Division

Department of Physics And Astronomy Research Fellow

Ref: 691

£19,460 to £29,128 per annum depending upon experience. Research and Analogous Faculty Grade 1A

Fixed term for 2 years, commencing 1st October 2004 Applications are invited for a postdoctoral position in theoretical astrophysics and cosmology. This full-time post will start in October 2004, or as soon as possible thereafter. The researcher will work in the area of numerical simulations, in particular hydro-dynamical simulations of clusters of galaxies and/or high-redshift galaxy evolution. Informal enquiries may be directed to Professor Peter Thomas (p.a.thomas@sussex.ac.uk), and further information about the research group can be found at <http://astronomy.susx.ac.uk/index.html> Closing date: Tuesday 31 August 2004.

Application details are available from and should be returned to Human Resources, Sussex House, University of Sussex, Falmer, Brighton BN1 9RH. Tel: (01273) 678706, fax: (01273) 877401, email: recruitment@sussex.ac.uk Details of all posts can also be found via <http://www.susx.ac.uk/central/jobs> An Equal Opportunity Employer

No. 20948

Research Associate Posts in Satellite Instrumentation

IMPERIAL COLLEGE LONDON

Blackett Laboratory

Prince Consort Road

United Kingdom

Tel: +44 20 7594 7531

FAX: +44 20 7594 7541

URL1: <http://astro.imperial.ac.uk/research.shtml>

Email Submission Address: diana.moore@imperial.ac.uk

Attention: Diana Moore, Mrs

The Astrophysics Group at Imperial College London invites applications for two research associate posts to support its role for the ESA LISA Pathfinder Mission. Recognising the importance of using gravitational waves as a new tool for studying important astrophysical phenomena, the Group has been actively involved in the development and promotion of the LISA mission which intends to use laser interferometry between mirrors in three separate spacecraft to study astrophysical systems emitting gravitational waves in the 10-4 to 10-1 Hz frequency range. Sources accessible to LISA include absolutely guaranteed Galactic stellar

binary systems to some of the most energetic events occurring at the very edge of the observable Universe, such as merging massive black-holes at the centres of galaxies. LISA will launch in 2012 and will be a totally new type of mission for astrophysics. Prior to this there will be a technology demonstration mission in 2008 called LISA Pathfinder (LISAPF). The group is providing a novel key subsystem for LISAPF which must actively control spurious forces acting on the interferometer mirrors. The LISAPF mission hardware is just moving into a flight manufacturing phase and we have a need for a Project Manager and a Physicist Engineer to join our team. The Project Manager will need to work in collaboration with international partners. The Imperial College London Group has an experimental programme including major involvement in an underground dark matter search as well as in space gravitational waves. There is also Group involvement in many observational programmes and in data processing for other satellite missions. Further details may be found on: <http://astro.imperial.ac.uk/research.shtml> Applicants for the research associate positions should have (or be about to obtain) a relevant PhD. For the Project Manager post previous experience in satellite projects is desirable. For the physicist/engineer you should have experience in using CAD software for design and analysis. Both posts are available immediately. The Project Manager post is available until end 2008. The Physicist/Engineer post will be for an initial period of 2 years. Salaries will be in the range £21,368 - £29,486 per annum depending on qualifications and experience. Further information and application forms are available either electronically or by post from Mrs Diana Moore, Tel: +44 (0) 20 7594 7531, Email: diana.moore@imperial.ac.uk. Completed application forms, including a curriculum vitae and list of publications, should be sent to Mrs. Diana Moore, Department of Physics, Blackett Laboratory, Imperial College London, Prince Consort Road, London SW7 2AZ.

No. 20949

Postdoctoral Research Position in Galaxy Evolution and Cosmology
SPACE TELESCOPE SCIENCE INSTITUTE
3700 San Martin Drive
Baltimore, MD 21218
Tel:

Attention: Jennifer Serrano, Sr. Employment Administrator

Postdoctoral Research Position in Galaxy Evolution and Cosmology Space Telescope Science Institute 3700 San Martin Drive Baltimore, MD 21218

Attention: Jennifer Serrano

Applications are invited for a postdoctoral research position in galaxy evolution and cosmology with Dr. Massimo Stiavelli at the Space Telescope Science Institute.

The successful candidate will collaborate with Dr. Stiavelli on HST or VLT observations or theoretical aspects related to one or more of the following projects : environment of QSOs at $z \geq 6$, properties of $z > 5$ galaxies, search and characterization of Lyman alpha emitting galaxies, evolutionary properties of elliptical galaxies. STScI hosts a lively research group in observational and theoretical cosmology and should provide a stimulating atmosphere.

The position is offered initially for one year and may be extended for up to three years. The start date is negotiable but could be as early as April 2005 or earlier.

The interested candidates should be in possession of a PhD in Astronomy or equivalent degree. Applications should be sent to the address above and should include a curriculum vitae, a brief (3 pages) description of past research accomplishments, and a summary (1 page) of a proposed research program. Applications should also arrange for three letters of reference to be sent directly to the address above. Applications received by October 31st will receive full considerations. EOE/AA/M/F/D/V

No. 20950**Associate Scientist, Fermilab Theoretical Astrophysics Group
FERMI NATIONAL ACCELERATOR LABORATORY****PO Box 500****MS 209****Batavia, IL 60510****USA****Tel: 630-840-3758****FAX: 630-840-8231****Email Submission Address: dodelson@fnal.gov****Email Inquiries: dodelson@fnal.gov*****Attention: Faculty Search Committee, Theoretical Astrophysics Group***

Tenure Track position FERMILAB THEORETICAL ASTROPHYSICS GROUP

The Fermilab Theoretical Astrophysics Group announces an opening for an Associate Scientist, a tenure track position equivalent to Assistant Professor. This is the first of several positions anticipated over the next few years. The Theoretical Astrophysics Group is part of the new Fermilab Astrophysics Center. The group has a wide range of interests, including theories of the early Universe and their connection to particle physics and string theory; cosmic microwave background; large-scale structure and evolution including studies of its formation via numerical simulations and analysis; dark matter and dark energy, and other topics in particle astrophysics. Our work on cosmological implications of physics beyond the Standard Model overlaps with the interests of the Fermilab Particle Theory group. We also work closely with the experimental astrophysics program, which includes the Sloan Digital Sky Survey, the Pierre Auger Project, the Cryogenic Dark Matter Search, and the Dark Energy Survey and Super Nova Acceleration Probe.

Currently, there are four staff members (Scott Dodelson, Joshua Frieman, Edward Kolb, and Albert Stebbins) and five post-docs (including one long term fellow) in the group. Interested applicants should send a curriculum vitae (including a brief statement of research interests), and arrange for three letters of recommendation to be sent to: Faculty Search Committee; Theoretical Astrophysics Group; Fermilab; MS-209, P.O. Box 500; Batavia, IL 60510 USA. To receive full consideration, applications should be received before November 15, 2004. Fermilab is an EOE/AA Employer M/F/D/V

No. 20951**Post-Doctoral Fellowship****NATIONAL CENTRE FOR RADIO ASTROPHYSICS, TIFR****Pune University Campus****Post Bag 3, Ganeshkhind**

Pune, Maharashtra 411007

INDIA

Tel: +91 20 2569 7107

FAX: +91 20 2569 7257

URL1: <http://www.ncra.tifr.res.in>

(The National Centre for Radio Astrophysic)

URL2: <http://www.gmrt.ncra.tifr.res.in>

(The Giant Metrewave Radio Telescope)

URL3: <http://www.tifr.res.in>

(Tata Institute of Fundamental Research)

Email Submission Address: dirncra@ncra.tifr.res.in

Email Inquiries: dirncra@ncra.tifr.res.in

Attention: Prof. R. Nityananda, Centre Director

The National Centre for Radio Astrophysics of the Tata Institute of Fundamental Research invites applications for post-doctoral fellowships. Applicants must have completed a Ph.D. in any area of ASTRONOMY/ ASTROPHYSICS. Fellowships are for a PERIOD of 3 YEARS with yearly review.

NCRA has built and operates the GMRT(<http://www.gmrt.ncra.tifr.res.in>). Post-doctoral fellows are expected to pursue vigorous research programmes that are centered around low frequency radio observations (in particular with GMRT) and / or participate in the running of the observatory (i.e., developing new hardware / software, taking part in support activities).

Post-doctoral fellows are currently paid Rs.12,000/- p.m. for the first two years, and Rs.14,000/- p.m. in the third year. Fellows are also entitled to subsidized (flatlet type) housing, medical coverage and canteen facilities.

Applicants should send their curriculum vitae, (including a list of publications and proposed research plan), and also arrange for three letters of reference to be sent directly to the Centre Director, NCRA at the above address.

For further details, please contact Dean, NCRA Faculty (deanncra@ncra.tifr.res.in).

No. 20952

Postdoctoral Position in Cosmology for the Dark Energy Survey

UNIVERSITY OF ILLINOIS

1002 West Green St

Urbana, IL 61801

USA

Tel: 217-333-9239

FAX: 217-244-7638

URL1: <http://cosmology.astro.uiuc.edu/DES>

Email Submission Address: jmohr@uiuc.edu

Email Inquiries: jmohr@uiuc.edu

Attention: Joseph J Mohr, Professor

Applications are invited for a postdoctoral appointment in the Department of Astronomy and the National Center for Supercomputing Applications at the University of Illinois in Urbana-Champaign. The successful applicant will work with Dr. Joe Mohr and Dr. Ray Plante to develop the data management system for the Dark Energy Survey; in addition, the applicant will be encouraged to pursue independent research. The Dark Energy Survey is a project to image 5000 square degrees of the southern sky in multiple optical bands to enable a study of the dark energy/cosmic acceleration using four different techniques: (1) a galaxy cluster survey coordinated with the South Pole Telescope CMB mapping, (2) a weak lensing study, (3) a galaxy angular power spectrum study, and (4) a Type Ia supernova campaign. Applicants should have data analysis and programming experience. Experience programming in compiled languages (C, C++, Java) and a high-level scripting language (Perl, Python) is highly desired. Preference will be given to those with experience in cosmology, research using optical photometric data, software design, high-performance computing, and/or distributed computing.

Candidates must possess a Ph.D. in astronomy, physics or a related technical field. The initial appointment will begin this fall and last for two years, with the possibility of an extension pending good research progress. Please send a CV, a publication list, and a brief research statement; in addition, arrange to have three letters of recommendation sent to Prof Mohr. To receive full consideration, applications should be received by September 15.

No. 20953**Instrumentation / Data Reduction Software****ASTROPHYSIKALISCHES INSTITUT POTSDAM****An der Sternwarte 16****Potsdam, D - 14482****Germany****Tel: +49-331-7499-313****FAX: +49-331-7499-436****URL1: <http://www.aip.de/groups/opti/MUSE/>****Email Submission Address: mmroth@aip.de****Email Inquiries: mmroth@aip.de*****Attention: Martin M. Roth, Dr.***

The Astrophysikalisches Institut Potsdam (AIP) is offering a postdoctoral position for participating in the development of the MUSE data reduction software, with an opportunity to carrying out pre-MUSE research using integral field spectroscopy (IFUs). MUSE is a major 2nd Generation VLT instrument project, with first light expected in 2012 (PI Observatoire de Lyon). The initial appointment will be for one year, with regular annual extensions over the course of the project. The successful candidate will participate in a training programme offered by the Euro3D Research Training Network until December 2005.

The AIP is located in Potsdam/Babelsberg, at the southwestern border to Berlin. About 70 scientists work on a variety of astrophysical topics. The AIP has access to the VIMOS and FLAMES IFUs at the VLT, the in-house built PMAS IFUs at Calar Alto, and other IFUs through the Euro3D collaboration (coordinator AIP). It features excellent computer facilities and has access to supercomputers. Potsdam further hosts the Albert-Einstein Institut for Gravitational Physics, the Astronomy department of Potsdam University and several other research

institutions.

Applications should be sent with the usual materials, including curriculum vita and a brief statement of research interests to the address above. Applicants should arrange for three letters of recommendation to be sent to the same address. Review of applications will commence on September 15th 2004. The AIP is an equal opportunity employer and particularly encourages applications from women.

No. 20954

Research Associate (Radiative Transfer Modeling)

UNIVERSITY OF ARIZONA

Tel:

URL1: <http://www.hr.arizona.edu>

URL2: <http://www.lpl.arizona.edu>

Attention: Peter Smith, online applications only

The Lunar and Planetary Laboratory at the University of Arizona is seeking an individual experienced in modeling the radiative transfer of sunlight through the Titan (or similar) atmosphere. Models will be compared to data obtained from the Hubble Space Telescope and the Huygens Probe, part of the Cassini/Huygens mission to Saturn. The position is available for two years, and may be renewed for an additional year subject to performance and the availability of project funds. Duties and Responsibilities include using large FORTRAN codes to determine atmospheric properties, the project aims to describe the combination of the solar heating profile with the thermal cooling profile to provide the net radiative drive for atmospheric dynamics in a spherical atmosphere. For further position details, minimum qualifications and to apply online please see the website www.hr.arizona.edu. The University of Arizona is an EEO/AA employer - M/W/D/V.

No. 20955

JUNIOR SCIENTIFIC RESEARCHER (Pan-STARRS)-ID# 24364

INSTITUTE FOR ASTRONOMY (IFA)

2530 DOLE ST.

SAKAMAKI HALL D-100

HONOLULU, HI 96822

US

Tel: 808-956-3100

FAX: 808-956-5022

URL1: <http://www.rcuh.com>

Attention: NELSON SAKAMOTO, DIRECTOR OF HUMAN RESOURCES

Non-Regular, Full-Time, RCUH Non-Civil Service position, located at Honolulu, Hawaii. Continuation of employment is dependent upon program/operational needs, satisfactory work performance, and availability of funds. Monthly Salary: \$4400.00. Duties: Participate in the development of the Pan-STARRS survey telescope system. Development of theoretical framework and computer simulations to establish performance of the system for various scientific goals. Help development of data processing pipeline. Will test prototype pipeline with

astronomical wide field imaging data. The successful applicant will have the opportunity to apply for time on all the telescopes on Mauna Kea and Haleakala, including the Gemini, Subaru, and Keck Telescopes. Minimum Qualifications: Ph.D. from an accredited college or university in Astronomy or Physics. (Ph.D. candidates may apply but must submit evidence of Ph.D. completion upon hire). Research in one or more areas of astronomy relevant to Pan-STARRS. (i.e., solar system, celestial mechanics, cosmology, etc.) Scientific background in astronomy. Knowledge of UNIX operating system. Demonstrated proficiency in C or C++ programming languages. Must be able to work at an elevation of 14,000 feet above sea level. Desirable Qualifications: Experience with processing of images from large mosaic CCD cameras. Experience with management of UNIX computer systems, including Beowulf style clusters. Experience with astrometry techniques. Familiarity with scientific data analysis languages such as IDL, Matlab, Mathematica etc. Familiarity with principles and practices of software engineering. Inquiries: Dr. Nicholas Kaiser, (808)988-8968 (Oahu). Please refer to www.rcuh.com and click on "Employment" link for complete information and application requirements for this position. Closing Date: September 1, 2004. EEO/AA Employer.

No. 20956

SUBARU SUPPORT ASTRONOMER (FOCAS) – ID# 24358

NATIONAL ASTRONOMICAL OBSERVATORY OF JAPAN, SUBARU TELESCOPE PROJECT

2530 DOLE ST.

SAKAMAKI HALL D-100

HONOLULU, HI 96822

US

Tel: 808-956-3100

FAX: 808-956-5022

URL1: <http://www.rcuh.com>

Attention: NELSON SAKAMOTO, DIRECTOR OF HUMAN RESOURCES

Regular, Full-Time, RCUH Non-Civil Service position, located in Hilo, Hawaii. Continuation of employment is dependent upon program/operational needs, satisfactory work performance, and availability of funds. Salary: Commensurate with qualifications. Duties: Participates in the observations with the Subaru telescope by assisting visiting and resident astronomers to carry out observations. The second and third instruments will be assigned as necessary. Pursuit of independent astronomical research is expected. Minimum Qualifications: Ph.D. from an accredited college or university in Astronomy or closely related field. One to three (1-3) years experience in astronomical observations and data reduction, development of optical and/or infrared instruments and research in astronomy. Ability to undertake independent program in astronomical research. Good written and oral communication skills in English. Able to interact well with both Japanese and English speaking staff. Possess a valid driver's license and able to operate four-wheel drive vehicles. Driving experience of at least one (1) year is necessary. Must pass a post-offer high altitude physical examination and able to work at a high altitude (14,000 feet). Desirable Qualifications: Communication skills in Japanese. Previous involvement in astronomical instrumentation including design, hardware and software development, and maintenance. Experience with image processing and data analysis. "Include detailed description of research history and research plan with the Subaru Telescope along with other application requirements." Inquiries: Kazuhiro Sekiguchi, (808)934-5905 (Hilo). Please refer to www.rcuh.com and click on "Employment" link for complete information and

application requirements for this position. Closing Date: September 1, 2004. EEO/AA Employer.

No. 20958

TENURE TRACK ASSISTANT PROFESSOR IN THEORETICAL OR COMPUTATIONAL ASTROPHYSICS

STONY BROOK UNIVERSITY

Department of Physics and Astronomy

Stony Brook, NY 11794-3800

USA

Tel:

Email Inquiries: www.stonybrook.edu/cjo

Attention: Professor Paul Grannis, Chair

The Department of Physics and Astronomy at the State University of New York at Stony Brook anticipates, pending administrative approval, hiring a tenure track assistant professor in theoretical or computational astrophysics. We anticipate the appointment beginning in Fall 2005 or Spring 2006. Stony Brook faculty and students conduct experimental and theoretical research in a broad range of physics and astronomical topics both in facilities on our campus and at laboratories around the world. The successful candidate is expected to carry out an independent research program, and is expected to successfully attract federal grant support for his or her research. The candidate should contribute to the teaching activities in the department at both the undergraduate and graduate levels. Candidates should send a curriculum vitae, list of publications, statement of current and future research interests, statement of teaching philosophy and a list of 3-5 references to: Professor Paul Grannis, Chair, Department of Physics and Astronomy, State University of New York, Stony Brook NY 11794-3800. Applications and reference letters should be submitted by Dec. 15, 2004, but later submissions will be considered until an appointment is made. Stony Brook strongly encourages applications from women and minority candidates. AA/EOE. Visit www.stonybrook.edu/cjo for employment information.

American Astronomical Society, 2000 Florida Ave., NW, Suite 400, Washington, DC 20009, USA

202-328-2010 * FAX 202-234-2560 * www.aas.org * aas@aas.org