

RECRUITMENT

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Max-Planck-Institut für Physik

(Werner-Heisenberg-Institut)



MAX-PLANCK-GESELLSCHAFT

The Max-Planck-Institut für Physik (Werner-Heisenberg-Institut) invites applications for a

postdoctoral position

for studies related to the development of a Muon Collider.

The Muon Collider offers an exciting possibility for extending the reach of present day electron-positron colliders to the multi-TeV range. A milestone on the path of realizing a muon collider is the reduction of the muon beam phase space by a factor 10^6 . This muon beam cooling, which must be done while maintaining a high muon efficiency, is the central challenge to realizing a muon collider.

The successful applicant is expected to participate in both the conceptual as well as laboratory studies of frictional cooling, the technique currently pursued in our group. The laboratory work is expected to include semiconductor based detector development, studies of gas properties in high electric and magnetic fields, and the measurement of muon scattering cross sections in test beams. Applicants are expected to have previous experience in detector and/or laboratory techniques.

Salary and benefits are commensurate with public service organisations (BAT IIa). The contract is initially limited to 2 years, with the possibility of extension of up to five years. Candidates should have good knowledge of experimental high energy physics, and should hold a PhD or equivalent in physics. They should not be older than 32 years. The MPI hires on the basis of merit and encourages applications from women.

Further information can be obtained from Prof. Allen Caldwell (E-Mail: caldwell@mppmu.mpg.de). Applications should be sent as soon as possible, at the latest 6 weeks after publication.

Interested applicants should submit an application letter, a statement of research interests, a curriculum vitae, a list of publications, and arrange for three letters of support to be sent to

Max-Planck-Institut für Physik

(Werner-Heisenberg-Institut)

Kristiane Preuss
Föhringer Ring 6
D-80805 München



NEUTRONS
FOR SCIENCE

INSTITUT LAUE-LANGEVIN

The Institut Laue-Langevin (ILL) is an international research institute funded by France, Germany and the United Kingdom. Agreements on scientific collaboration have also been signed with Austria, Italy, Spain, Switzerland, the Czech Republic and Russia. The Institute operates the most powerful source of neutrons in the world, a 58 MW reactor, which was completely refurbished in 1995. The reactor forms the basis for a programme of research covering a wide variety of fields, supplying neutrons to a broad range of instruments which are available to scientists from the member countries.

The ILL has an opening in its Nuclear and Particle Physics Group for a

RESEARCH SCIENTIST

The post, which is offered on a fixed-term basis, represents an excellent opportunity for a young postdoctoral scientist to develop his expertise, broaden his experience and interact with leading scientists from around the world. More experienced scientists on detachment will also be considered.

The ultra cold (and very cold) neutron beam facility PF2 for fundamental physics features the most intense UCN beam currently available for scientific research of fundamental properties of the neutron.

The successful candidate will be a highly motivated scientist having a PhD, and experience in particle physics and/or fundamental physics with neutrons. He/she will share responsibility for the facility PF2. Additionally he/she will be expected to carry out his/her own research programme, assist ILL users in conducting their experiments and participate in the operation and development of the PF2 instrument.

The successful candidate will be offered a fixed-term contract, the duration of which will under no circumstances exceed five (5) years. In addition to a competitive salary, certain benefits (reimbursement of removal expenses, adaptation allowance, etc.) may be offered.

Further information can be obtained by contacting the head of the Nuclear and Particle Physics group (Dr. H. Börner Tel: +33 (0)4 76 20 73 94; e-mail: borner@ill.fr) or via the World Wide Web (<http://www.ill.fr/nfp/>).

An application with curriculum vitae, a list of publications and the names of two academic referees should be sent, quoting reference 03/04C, no later than 21.03.2003 to:

Dr. H. Börner, Head of NPP Group - INSTITUT LAUE-LANGEVIN
B.P. 156 - 38042 Grenoble Cedex 9 - France

CORNELL

SENIOR RESEARCH ASSOCIATE IN EXPERIMENTAL ELEMENTARY PARTICLE PHYSICS CORNELL UNIVERSITY

Cornell Lab for Elementary-Particle Physics is seeking an experimental elementary particle physicist at the Senior Research Associate level. The successful candidate will work with the Cornell team on upgrading the CLEO detector, collecting and analyzing CLEO-c data and preparing for the linear collider, including both detector and accelerator R&D.

This is a continuing appointment requiring a PhD in physics and at least 10 years of experience in experimental elementary particle physics, preferably in e⁺e⁻ collider physics. The successful candidate will have standing in the international community and have demonstrated leadership capabilities.

Applications containing a curriculum vitae and publication list and names and addresses of five professional referees should be sent to

Prof. Maury Tigner at search@lns.cornell.edu,
Floyd Newman Laboratory, Cornell University, Ithaca, NY 14853.

Cornell is an equal opportunity/affirmative action employer.

<http://www.lns.cornell.edu/public/eppprof.html>



The European Gravitational Observatory, a French-Italian consortium dedicated to the research on gravitational waves, operates the 3 km-long VIRGO detector, located in Pisa-Italy. EGO is recruiting:

- Software Engineer	Ref. OP/EL/02
- System Engineer	Ref. CO/SY/01
- Software Support Engineer	Ref. CO/SW/01
- Computer Support Operator	Ref. CO/SY/02
- Electro-optical Engineer	Ref. OP/EO/01
- Operation Support Scientist	Ref. OP/OS/01
- Electrical Technician	Ref. IN/EL/01

Job descriptions are available on: www.ego-gw.it/employment.htm



Bureau International des Poids et Mesures

Head of Publications

Applications are invited for the post of Head of Publications at the Bureau International des Poids et Mesures (BIPM).

The BIPM is an intergovernmental scientific organization working under the auspices of the Metre Convention. Its mission is to provide the basis for world measurement standards. In this it works in close cooperation with the national metrology institutes of the Member States.

The organization has two main groups of publications: one is a continuing series of reports of meetings on metrology held at the BIPM; the other is *Metrologia*, an international journal, now in its 38th year of publication, dealing with pure and applied metrology and, since 1 January 2003, published in partnership with the Institute of Physics Publishing (UK). The Head of Publications is Editor of *Metrologia*, and in addition has an important role in the internal review of BIPM staff publications prior to their submission to external journals in the open scientific literature. The appointee is moreover expected to take an interest in and to offer advice on the promotion of the BIPM's scientific programme using the web and other suitable media. The publications section also has responsibility for the BIPM website, a resource that has grown increasingly important over the past few years.

The successful candidate is likely to combine extensive experience as a physicist in a supervisory or academic post with some knowledge of book, journal or other scientific publication. Since many BIPM publications are bilingual, the person appointed must have an excellent knowledge of English and a working knowledge of French.

The BIPM laboratories and offices are located on an attractive site in Sèvres on the outskirts of Paris and house a staff of about seventy. Salaries and conditions of employment are those appropriate to an international organization. Further information on the BIPM and *Metrologia* can be obtained from the BIPM website (www.bipm.org).

Applications, to include a curriculum vitae and the names of two referees, should be sent before 30 April 2003 to:

Dr T. J. Quinn FRS,
Director, Bureau International des Poids et Mesures,
Pavillon de Breteuil, F-92312 Sèvres Cedex,
France.
e-mail: tquinn@bipm.org



Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

Assistant Professor for Computational Optoelectronics

The responsibilities of this position include research and teaching in computational optoelectronics with emphasis on physical and numerical modelling of materials, devices and systems.

Candidates holding a Ph.D. degree should be known for their research activities in computational solid state electronics and technology computer aided design (TCAD). They should also present evidence of their leadership in a research team and of their ability to successfully cooperate with partners inside and outside the university and to teach at all university levels.

The candidates are elected for three years; an extension of another three years is possible.

Please submit your application together with a curriculum vitae, a list of publications, and a list of research activities and projects to the **President of ETH Zurich, Prof. Dr. O. Kübler, ETH Zentrum, CH-8092 Zurich, no later than March 15, 2003.** ETHZ specifically encourages female candidates to apply with a view towards increasing the proportion of female professors.

Assistant/Associate Professor in Experimental Astrophysics Harvard University, Faculty of Arts and Sciences

The Astronomy and Physics Departments at Harvard University invite applications for a faculty position in experimental astrophysics. We seek outstanding applicants for a junior faculty position, either at the rank of assistant or associate professor. Exceptional candidates may be considered for a tenured, senior faculty position. Successful candidates for this position should have demonstrated the potential to lead a first-rate research program in a sub-field of astrophysics such as dark matter searches, low and high energy astrophysical neutrinos and cosmic rays, gravitational waves, and cosmic microwave background measurements, although we are not exclusively focused on these areas. Candidates should have a strong commitment to undergraduate and graduate teaching.

The appointment will be based in the Physics Department but also joint with the Astronomy Department. We especially welcome applications from female and minority candidates. Please send applications including curriculum vitae, a statement of short and long-term research goals, selected publications and names, addresses and telephone numbers of three people who will write references to the:

Astrophysics Faculty Search Committee, c/o Carol Davis, Physics Department, 17 Oxford St., Lyman 237, Harvard University, Cambridge, MA 02138. For more information, see <http://cfa-www.harvard.edu/hco/astro/home.html> and <http://www.physics.harvard.edu/>

Applications received by April 2, 2003, will be considered at priority for a position to start in September, 2003, although applications will be received until the position is filled. Harvard University is an Equal Opportunity/Affirmative Action Employer.



HP Laboratories

invent Bristol, UK

Creating the Future of Utility Computing at HP Labs in Bristol

HP's European Research Laboratories in Bristol, UK, is seeking two experienced researchers to join its research team in Utility and Grid Computing. Qualified individuals, probably post-doctorate, will have a distinguished track record of research in a relevant area, evidenced by high-quality research results. We are also looking for a proven ability to translate ideas into working systems. Suitable disciplines include:

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- security

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Please contact **Peter Toft** (peter.toft@hp.com) or **John Manley** (jmanley@hp.com) to learn more about these exciting opportunities.

NEED TO RECRUIT?

E-mail Ed Jost: edward.jost@iop.org

CERN COURIER RECRUITMENT BOOKING DEADLINE

**April issue:
14 March**

**Publication
date:
26 March**

Contact Ed Jost:

Tel. +44 (0)117 930 1196

Fax +44 (0)117 930 1178

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DIRECTOR, SYNCHROTRON RADIATION SCIENCE, DARESBUY, WARRINGTON

The Council for the Central Laboratory of the Research Council, CCLRC, is one of Europe's largest multidisciplinary research organisations supporting scientists and engineers world-wide.

A vacancy exists for a Director, Synchrotron Radiation Science. The post will be based at the Daresbury Laboratory, Warrington, Cheshire. The primary purpose and objective of the post will be to provide scientific leadership and direction to the Council's support to the UK Community in the field of synchrotron radiation. As such you will provide direction to the support of research by users of the Synchrotron Radiation Source at Daresbury Laboratory, and develop in conjunction with stakeholders a strategic plan for the development and operation of experimental stations on the SRS. You will also maintain an overview, on behalf of CCLRC, of the needs of UK researchers using synchrotron radiation at home and overseas facilities, co-ordinate strategic reviews for the user community and elsewhere for CCLRC as an input into the ongoing strategic roadmap of the UK for large scale facilities.

You will play a key leadership role within the field of synchrotron radiation research within CCLRC and contribute fundamentally to the development of a strategic direction. You will lead and develop the in-house research activity complementary to the overall strategic direction of the SRS. An outstanding international reputation and standing in the field of synchrotron radiation science is necessary. You should be conversant and respected in both the biological and physical sciences. Strong communication, interpersonal and negotiating skills are essential as well as an ability to manage staff with a wide range of skills and disciplines.

For further information and a discussion about the post contact Director of Daresbury Laboratory, Dr H G Price, telephone (01925) 603119 or email h.g.price@dl.ac.uk.

Salary will be commensurate with the level of responsibility. An index-linked pension scheme, flexible working hours and a generous leave allowance are also offered.

Application forms can be obtained from: Human Resources Division, Daresbury Laboratory, Daresbury, Warrington, Cheshire, WA4 4AD. Telephone (01925) 603864 or email recruit@dl.ac.uk quoting reference VND173/03.

More information about CCLRC is available from CCLRC's World Wide Web pages at <http://www.cclrc.ac.uk>

All applications must be returned by 24 March 2003.

The Council for the Central Laboratory of the Research Councils (CCLRC) is committed to Equal Opportunities and is a recognised Investor in People. A no smoking policy is in operation.



COUNCIL FOR THE CENTRAL LABORATORY
OF THE RESEARCH COUNCILS



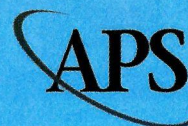
RESEARCH SCIENTIST – (ISAC) Competition #898

TRIUMF, Canada's national laboratory for particle and nuclear physics, has an immediate opening for an outstanding Research Scientist to lead a substantial part of the research program at ISAC II, the accelerated radioactive beam facility at **TRIUMF**, which will deliver 6.5 MeV/u beginning in 2005. Applicants must have a recent PhD in Nuclear Physics, a strong vision for a scientific program with ISAC II beams and be capable of developing state-of-the-art spectrometers and instrumentation to support this research.

This is a full-time research position leading to a continuing Board Appointment within five years, with possibilities to direct graduate student theses and to teach at local universities. Salary is commensurate with experience.

TRIUMF is an equal opportunity employer and, while preference will be given to Canadian citizens and permanent residents, we invite all qualified applicants to submit resumes including a statement of research interests and to have 3 reference letters sent independently to: **TRIUMF Human Resources, Competition #898, 4004 Westbrook Mall, Vancouver, B.C., Canada V6T 2A3. Fax (604) 222-1074. Applications will be accepted until April 25th, 2003.**

EDITORIAL POSITION, PHYSICAL REVIEW B AND PHYSICAL REVIEW LETTERS



AN ALTERNATIVE SCIENCE CAREER:

Physical Review B and Physical Review Letters each seek a dynamic and personable colleague to join their respective staffs at the American Physical Society (APS) Editorial Office located in Long Island, New York.

Qualified applicants will possess a Ph.D. in physics (preferably condensed matter physics), have an excellent command of written and spoken English, and be familiar with the research publication process. Postdoctoral experience is desirable. We train all new editors to develop the necessary skills. No prior editorial experience is required for this entry-level position. If you have the qualifications and are ready to start a non-traditional career in physics, APS offers career stability, a competitive salary, and an outstanding benefits package.

To learn more about our organization visit www.aps.org. Send your resume plus a cover letter containing salary requirements and timetable of availability to:

**Joseph Ignacio, Director of Human Resources,
American Physical Society, 1 Research Road,
Box 9000, Ridge, NY 11961,
email: edresumes@aps.org, fax: 631-591-4155.**



Tenured Professorial Position in Accelerator Physics

The Stanford Linear Accelerator Center (SLAC) is seeking an outstanding individual for a tenured faculty position in Accelerator Physics. We are looking for candidates with significant accomplishments and promise for important future achievements. In particular, the candidates are expected to have demonstrated leadership in the design, construction, and/or operation of major accelerator facilities.

The successful candidate is expected to take a leadership role in developing present accelerator facilities, in developing new initiatives at SLAC and in creative scholarship. As a member of the Academic Council of Stanford University, there will be opportunities to teach and supervise undergraduate and graduate students.

Candidates should submit a curriculum vitae, publication list, a statement of research interests, and the names of four references to **Professor Burton Richter, SLAC-MS 80, 2575 Sand Hill Road, Menlo Park, CA 94025, or electronically to brichter@slac.stanford.edu.**

The deadline for receipt of applications is April 15, 2003.

SLAC is an equal opportunity employer and welcomes nominations of women and minority group members and applications from them.

cerncourier.com

Post-Doctoral Position

The experimental high energy physics group at the University of Hawaii invites outstanding applicants for a position of Postdoctoral Fellow. Full time, federally funded and renewable for second & third year depending on funding and satisfactory performance. The successful candidate will participate in the Belle experiment at the KEKB asymmetric e^+e^- collider at the KEK laboratory in Japan. The primary goals of the experiment are to investigate CP violation in the decays of B mesons and make precision tests of the standard model. The Hawaii Belle group participates in the analysis of Belle data, the implementation of a second generation semiconductor vertex detection system and the operation of the sub 100ps resolution time-of-flight detection system. Minimum Qualifications: PhD in experimental high energy physics is required; experience with modern electronics, particle detectors and data analysis techniques is desirable. Stipend: \$38,000 - \$52,000 depending on qualifications and experience. To Apply: submit curriculum vita and arrange for three letters of recommendation to be sent to:

Prof. Thomas Browder, c/o Ms. Janet Bruce,
Dept of Physics and Astronomy, University of Hawaii,
2505 Correa Road, Honolulu, HI 96822.

Recruitment will remain open until position is filled. The University of Hawaii is an affirmative-action equal-opportunity employer.



THE UNIVERSITY of LIVERPOOL

Department of Physics

Liverpool Particle Physics Group

Research Associate in Particle Physics

£18,265 - £22,191 pa

Applications are invited for a Research Associate position to work within the Liverpool Particle Physics Group on the ATLAS experiment at the LHC.

You will have/be about to complete a PhD in experimental particle physics and will be expected to contribute to both the semiconductor tracker end-cap construction programme and physics preparations for ATLAS. The post is funded by PPARC for three years initially. You will be expected to spend time at CERN and travel to collaborating institutes both within and outside the UK as appropriate.

Informal enquiries to Professor Phil Allport, email: allport@hep.ph.liv.ac.uk or Dr Neil Jackson, email: nj@hep.ph.liv.ac.uk.

Quote Ref: B/002/C

• Closing Date: 31 March 2003

Further particulars and details of the application procedure should be requested from the Director of Personnel, The University of Liverpool, Liverpool L69 3BX on 0151 794 2210 (24 hr answerphone), via email: jobs@liv.ac.uk or are available online at <http://www.liv.ac.uk/university/jobs.html>

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LABORATOIRE EUROPÉEN POUR LA PHYSIQUE DES PARTICULES EUROPEAN LABORATORY FOR PARTICLE PHYSICS

CERN invites applications for the position of

EDITOR CERN Courier

Published ten times a year in English and French, the CERN Courier serves the global particle physics community. It carries news and opinion on developments in particle physics, nuclear physics and accelerator science. The readership of around 25,000 is broadly divided between the particle physics community and scientists in other disciplines. Production of the magazine is outsourced, currently to IOP Publishing in the UK.

Candidates are expected to have a doctorate in particle physics and a proven track record in written science communication, with experience at international level. Further requirements include experience of scientific publishing coupled with the ability to transform scientific information into terms that can be understood by non-specialist audiences. Impeccable written English and a good working knowledge of French are necessary.

The post will involve independent researching, commissioning, editing and writing. The Editor will work closely with the external publisher to ensure timely delivery of an accurate and relevant magazine. He/She will also have supervisory responsibility for the Laboratory's other non-technical publications.

Interested candidates are asked to send an application letter and a CV including the names of three referees to Mr Pierre Gildemyn, Human Resources Coordinator, CERN, CH @ 1211 Geneva 23, email: Pierre.Gildemyn@cern.ch, by 15 March 2003. Nationals of CERN's Member States may apply for this vacancy*.

This position is also published on the vacancy list at CERN, which can be consulted at www.cern.ch/jobs/

CERN is an equal opportunity employer and encourages both men and women with the relevant qualifications to apply.

* AT, BE, BG, CH, CZ, DE, DK, ES, FI, FR, GR, HU, IT, NL, NO, PL, PT, SE, SK, UK

Lectureship/Senior Lectureship in Theoretical Astrophysics

Department of Physics and Astronomy

Applications are sought from those with expertise in the area of gravitational waves, the early-Universe and Cosmic Microwave Background, with particular emphasis on theoretical and/or data analysis aspects of gravitational waves. You will be expected to strengthen further the existing programmes in these areas, and have demonstrated an existing world-class programme of research. You will be expected to teach general relativity and other theoretical astrophysics courses at undergraduate and postgraduate level. The post will take effect from 1 September 2003.

The Department of Physics and Astronomy at Cardiff University has undergone substantial expansion in the past few years, and has very strong research groups in gravitational wave physics (with major involvement in GEO, LIGO and LISA), astronomical instrumentation (with particular emphasis on CMB projects including Boomerang, ACBAR, Planck, QUEST and others), extragalactic astronomy and cosmology, star-formation, optoelectronics, acoustics and mesoscopic physics. There are presently 13 academic staff involved in astrophysics and relativity, with 23 postdoctoral researchers and 21 PhD students.

Informal enquiries can be made to the Head of Department, Professor Mike Edmunds, email mge@astro.cardiff.ac.uk

Salary: Lecturer: £21125-£33679 per annum
Senior Lecturer: £35251-£39958 per annum

For an application pack and details of all our vacancies, visit www.cardiff.ac.uk/jobs. Alternatively email vacancies@cardiff.ac.uk or telephone +44 (0) 29 2087 4017 quoting vacancy number 015.

Closing Date: 14 March 2003.



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Laboratori Nazionali del Gran Sasso dell'INFN European Community – Improving Human Potential Programme

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The Laboratori Nazionali del Gran Sasso (LNGS) of Istituto Nazionale di Fisica Nucleare (INFN), Italy, give the opportunity for European research groups, performing or planning research activity at LNGS, to APPLY FOR E.U. FUNDED ACCESS TO LNGS, in order to cover subsistence and travel expenses.

Proposals must be submitted using the Application Forms that can be downloaded from our website* and must be sent within March 15, 2003, to:

**LNGS Director, TARI, INFN, Laboratori Nazionali del Gran Sasso,
S.S. 17 bis, km 18+910, 67010 Assergi (L'Aquila)
Fax: +39-(0)862-437218**

More information can be obtained by visiting our website: *<http://www.lngs.infn.it/>
or from the TARI secretariat (e-mail: tari@lngs.infn.it fax: +39-(0)862-437571)

Australian Synchrotron Project – Lighting the Path to Innovation

A major national facility, to be located in Melbourne, the Australian synchrotron will provide researchers both from within Australia and overseas, with a powerful new tool for scientific and industrial research including the fields of structural molecular biology, molecular environmental science, materials science and medical diagnostics and therapy.

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- Lead Accelerator Physicist
- Technical Manager
- Accelerator Physicist
- Lead Mechanical Engineer
- Lead Electrical Engineer
- Lead Computer Control Systems Engineer

Relocation assistance will be provided. Please enquire in strict confidence by contacting Rohan Christie or Graham Gough on +61 (03) 9670 1220 or +61 0413 592 882 or by sending an email to address shown below. Please send a concise CV (max 5 pages) and cover letter to the following address: Rohan Christie, Gough Partnership, "Bourke Place" Level 9, 600 Bourke Street, Melbourne VIC 3000 Australia Fax: +61 (03) 9670 1575 Email: rc@goughpartnership.com.au www.goughpartnership.com.au

Further information on the project can be obtained at
<http://www.synchrotron.vic.gov.au>

Department of Infrastructure



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BP 520 F-19106, Brive, France

E-mail: c.marmonier@photonis.com

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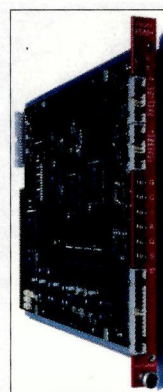
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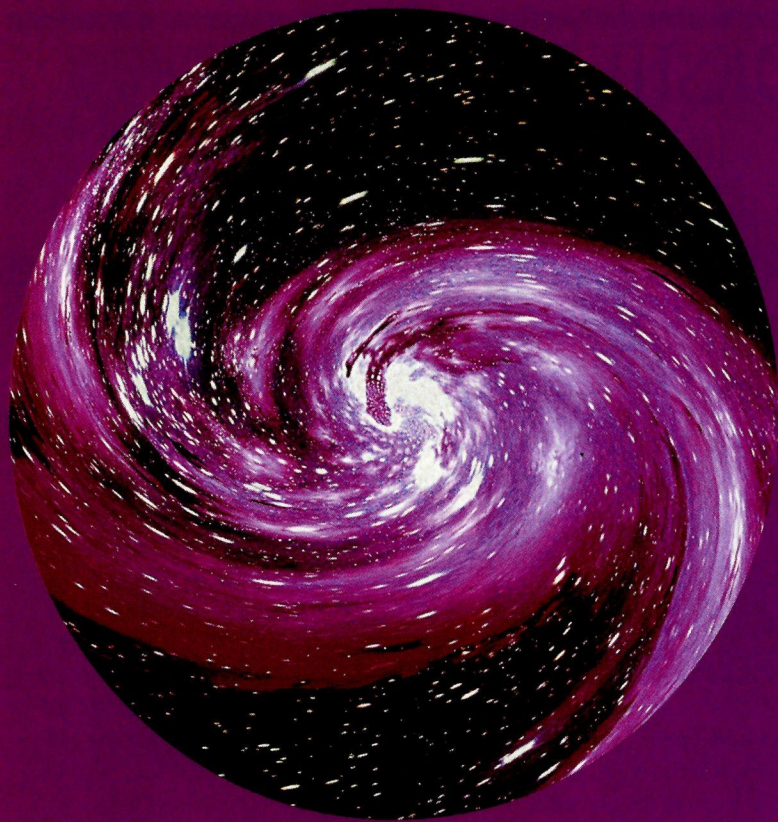
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