

CERN Courier is the reading matter of choice for the high-energy-physics community, but it also goes into every other area of physics. In fact, nearly half of the **CERN Courier** readership works in areas other than high-energy physics, choosing **CERN Courier** to keep them up to date with developments in fundamental research.

Published 10 times a year, **CERN Courier** is not just CERN's in-house magazine; it has a worldwide distribution network in high-profile research centres and a global readership stretching across every major research institution. With a team of correspondents in more than 20 of the world's most significant laboratories, it reports on news and the latest research developments from across the world.

72 000*
READERS WORLDWIDE

cerncourier.com
39 000*
unique visitors a month

* Publisher's own data

* Google Analytics 6-month average figure, Nov 09 – Apr 10.

CERN Courier is distributed to all of these major research sites

Africa

National Accelerator Centre, South Africa

Asia

Beijing Electron Positron Collider, China
Beijing Synchrotron Radiation Facility, China

INDUS-I and INDUS-II, India

National Laboratory for High Energy Physics (KEK), Japan

National Synchrotron Radiation Laboratory, China

Nuclear Science Centre, India

Pohang Light Source, Korea

Raja Ramanna Centre for Advanced Technology, India

RIKEN, Japan

Super Photon ring – 8 GeV (Spring-8), Japan

Synchrotron-light for Experimental Science and Applications in the Middle East (SESAME), Jordan

Synchrotron Radiation Research Center, Taiwan

Variable Energy Cyclotron Centre (VECC), India

Australia

Australian Synchrotron

Belgium

Cyclotron of Louvain la Neuve (CYCLONE)

Denmark

Aarhus Storage Ring in Denmark (ASTRID)
Institute for Storage Ring Facilities in Aarhus

Finland

Accelerator Laboratory of the Department of Physics (JYFL) at the University of Jyväskylä

France

Centre d'Etudes et de Recherches par Irradiation CNRS (CERI)

Centre national de la recherche scientifique (CNRS)

European Synchrotron Radiation Facility (ESRF)

Grand Accélérateur National d'Ions Lourds (GNAIL)

Laboratoire pour l'Utilisation du Rayonnement Electromagnétique (LURE)

Source Optimisée de Lumière d'Énergie Intermédiaire du LURE (SOLEIL)

Germany

Angströmquelle Karlsruhe (ANKA)

Berliner Elektronenspeicherring-

Gesellschaft für Synchrotronstrahlung (BESSY)

Cooler Synchrotron (COSY)

Deutsches Elektronen Synchrotron (DESY)

Dortmund Electron Test Accelerator (DELTA)

Electron source with high brilliance and low emittance (ELBE)

Electron Stretcher Accelerator (ELSA)

Forschungszentrum Rossendorf (FZR)

Free Electron Laser in Hamburg (FLASH)

Gesellschaft für Schwerionenforschung (GSI)

Hamburger Synchrotronstrahlungslabor (HASYLAB)

Heavy-Ion Test Storage Ring (TSR)

Helmholtz Institut für Strahlen und Kernphysik (HISKP)

IonenStrahlLabor am Hahn Meitner Institut (ISL)

Maier-Leibnitz-Laboratorium: Accelerator of LMU and TU Munich (MLL)

Mainz Microtron (MAMI)

Max Planck Institut für Kernphysik (MPI-HD)

Italy

Double Annular Factory for Nice Experiments (DAFNE)

ELETTRA

Instituto Nazionale di Fisica Nucleare (INFN)

Laboratori Nazionali di Frascati (LNF)

Netherlands

Accelerateur Groningen-Orsay (AGOR)

National Institute for Nuclear Physics and High Energy Physics (NIKHEF)

Russia

Budker Institute of Nuclear Physics

Institute for High Energy Physics (IHEP)

Institute for Theoretical and Experimental Physics (ITEP)

Joint Institute for Nuclear Research (JINR)

Spain

ALBA

South America

Laboratorio Nacional de Luz Sincrotron (LNLS), Brazil

Tandem Accelerator (TANDAR), Argentina

Sweden

Manne Siegbahn Laboratory (MSL)

MAX-Lab, Lund University

Royal Institute of Technology (KTH)

The Svedberg Laboratory (TSL)

Switzerland

Centre Europeen de Recherche Nucleaire (CERN)

Paul Scherrer Institut (PSI)

UK

Diamond

Rutherford Appleton Laboratory (RAL)
Synchrotron Radiation Source Daresbury

US and Canada

88-Inch Cyclotron

Advanced Light Source

Alternating Gradient Synchrotron (AGS)

Argonne National Laboratory (ANL)

Bates Linear Accelerator Center, Massachusetts Institute of Technology (MIT-Bates)

Brookhaven National Laboratory (BNL)

Canadian Light Source (CLS)

Center for Advanced Microstructures and Devices (CAMD)

Cornell Electron-Positron Storage Ring (CESR)

Cornell High Energy Synchrotron Source (CHESS)

Crocker Nuclear Laboratory

Duke Free Electron Laser Laboratory (DFELL)

Fermi National Accelerator Laboratory

Idaho Accelerator Center

Indiana University Cyclotron Facility (IUCF)

Lawrence Berkeley National Laboratory (LBNL)

Los Alamos National Laboratory (LANL)

Louisiana Accelerator Center

National Superconducting Cyclotron Laboratory (NSCL)

National Synchrotron Light Source (NSLS)

Oak Ridge National Laboratory (ORNL)

Particle Beam Physics Lab

Relativistic Heavy Ion Collider (RHIC)

Saskatchewan Accelerator Laboratory (SAL)

Spallation Neutron Source (SNS)

Stanford Linear Accelerator Center

Stanford Synchrotron Radiation Laboratory

Stony Brook Superconducting Linac (SBSL)

Sudbury Neutrino Observatory

Synchrotron Radiation Center

Synchrotron Ultraviolet Radiation Facility (SURF II)

Thomas Jefferson National Accelerator Facility (TJNAF)

TRI-University Meson Facility/ National Meson Research Facility (TRIUMF)

CERN Courier show calendar 2011

Issue	Show(s)
Jan/Feb	AAAS 2011, US.
Mar	DPG Condensed Matter & AMOP, Germany; APS March Meeting, US; PAC 2011, US.
Apr	IOP Nuclear & Particle Physics Conference, UK; BEAUTY 2011, Netherlands; SVC 54th Annual Meeting, US; APS April Meeting, US.
May	DIPAC 2011, Germany.
Jun	Physics at LHC 2011, Italy; CEC/ICMS 2011, US; International Supercomputer Conference 2011, Germany.
July/Aug	HEP 2011; SRF 2011, US; PANIC11, US; FEL 2011; Rutherford Centennial Conf on Nuclear Physics, UK; Lepton Photon 2011, India.
Sep	SRI 2011, US; IPAC 2011, Spain; MT-22, France; EUCAS 2011; Synchrotron Radiation User Meeting, UK.
Oct	ICALEPCS, France; Frankfurt Book Fair, Germany; NSS/MIC 2011, Spain.
Nov	To be confirmed
Dec	To be confirmed

CERN Courier readers work in the following fields:

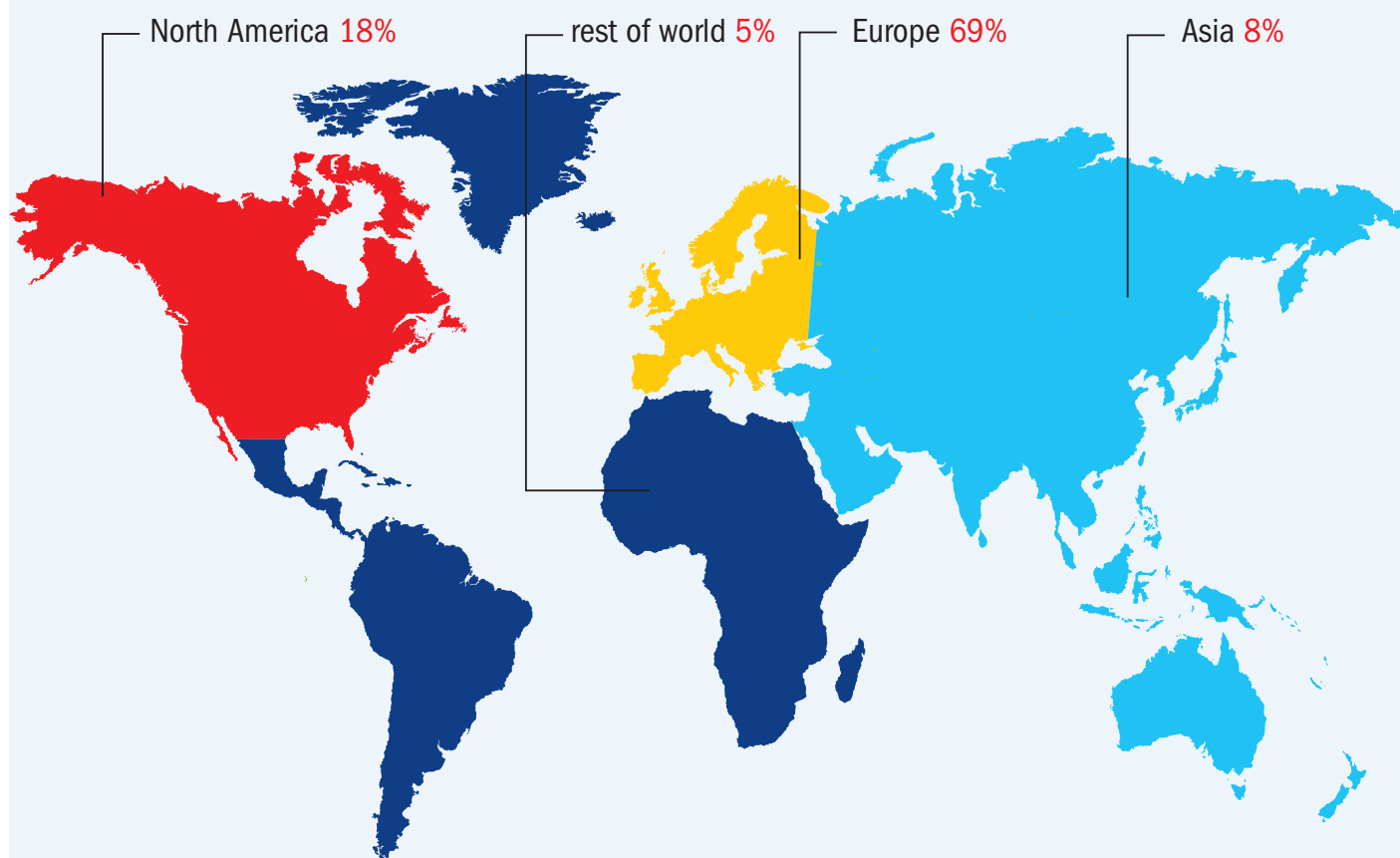
- astrophysics and astronomy
- computing, software and IT
- cosmology
- cryogenics
- detector developments and imaging
- education
- electronics and data communication
- high-energy physics
- imaging, materials and instrumentation
- medical physics
- nuclear physics
- particle physics
- quantitative finance
- radio frequency, power supplies and engineering
- solid-state physics
- space research
- subatomic physics
- synchrotron radiation
- vacuum research

Who will your message reach?

Some examples of large-budget projects, where the procurement managers and key decision makers receive *CERN Courier*:

- Large Hadron Collider (LHC) at CERN: more than €3 bn
- Facility for Antiproton and Ion Research (FAIR): €1 bn until 2014
- Japan Proton Accelerator Research Complex (J-PARC): ¥133.5 bn
- Linac Coherent Light Source (at SLAC): \$315 m
- European X-ray laser project (XFEL): €908 m until 2012

Readers – geographical breakdown



CERN Courier magazine

Advertising

As well as offering standard display solutions to help you to reach readers, we can create a bespoke package to help you to increase your brand exposure and promote products, services and developments tailored to your budgets and marketing schedule.

Advertorials

Enhance your company or brand presence to get ahead of the competition with an advertorial that will deliver your marketing message to your target prospects. Previous clients include SAES Getters, Hewlett-Packard, Instrumentation Technologies, OCEM and Babcock Noell.

Reprints

If your product or company features in a *CERN*



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Courier article, or if a colleague writes an editorial piece for us, reprints can play an important part in enhancing your marketing campaign. You can:

ADVERTISEMENT FEATURE



SAES® Getters' SORB AC Getter Wafer Modules Boost UHV Conditions at Shanghai Synchrotron Radiation Facility (SSRF)

The Shanghai Synchrotron Radiation Facility (SSRF) is a third-generation synchrotron light source designed to meet the growing demand for synchrotron radiation in China. It consists of a 432 m circumference storage ring operating at 3.5 GeV, a 100MeV electron linac and several beam lines and experimental stations. It will be the largest synchrotron in China and the fourth largest worldwide. Once fully operating, more than 60 beam lines will be made available to users for a variety of studies, encompassing macromolecular crystallography (MXR), hard X-ray microanalysis, X-ray imaging and biomedical applications, soft X-ray spectroscopy, XRF analysis and small-angle X-ray scattering. The synchrotron ring, which is at present under construction at Zhang Jiang High Tech Park in Shanghai, is expected to begin the commissioning phase by the end of 2008.

One of the key challenges faced during the project has been the achievement and maintenance of a suitable vacuum level, especially at full beam current when large gas loads are generated by synchrotron radiation along the ring and in the beam lines. The most significant challenge is the generation of $<3 \times 10^{17}$ electron-positron pairs per second, which is a value of $<3 \times 10^{17}$ electron-positron pairs per second. To ensure this challenging target the vacuum ring is equipped with more than 200 SORB AC Getter Wafer Modules (mainly of the 10" SORB AC type).

The integration of SAES NEG Wafer Modules inside ion pumps is a well known and proven approach which has been used in several machines, like Elettra in Italy, the Pohang Light Source in South Korea or APS at Argonne National Laboratory. The Getter Wafer Modules are available in two getter alloys: DS 707 and DS 2022 and come in a range of compact sizes. They feature pumping speed for hydrogen between 400 and 1200 l/s, significantly exceeding ion pump performance. Furthermore, in fact, lower pumping efficiency for hydrogen

In the 10^{17} electron range and below, being hydrogen the main residual gas in UHV systems, this may create inconveniences during the machine operations, especially in the high gas load regions. The Getter Wafer Modules provide a simple and cost effective way to significantly increase speed and capacity for hydrogen as well as for the other gases right where this is most required.

A picture of a NEG module installed inside the ion pump installed at SSRF is showed in the picture.

Given its compact size, the module can be easily mounted inside the ion pump. Activation is generally accomplished by pulse heating, during the ion pump turn-out, in a perfectly dry clean passage of current through the module length.

Modules have high capacity for gases and are rugged enough, so once installed they do not need to be replaced, but just, attached from time to time or after ion pump venting for maintenance and operations. This is possible, as for other getter pumps, a large number of tubes, generally more than 50. However, if some other activation operation is for any other reason, modules can be easily replaced. This provides extra safety and reliability to the entire vacuum system, since the replacement operation is very simple and does not affect at all the ion pump performance.

Extensive testing of Wafer Getter Modules inside ion pumps of different vendors is ongoing in several synchrotron light sources which are being built or designed in Europe and in Asia.

In particular, investigations carried out at SSRF have allowed that other getter module activation, vacuum in the 10^{17} electron are obtained, fully meeting the demanding vacuum requirements of the light source.

For more information:
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Business Sales Manager - Vacuum Systems
Phone: +39 02 83422004
e-mail: piero.mantovani@group.com
www.saesgetters.com

- increase your PR coverage;
- include them in direct mail/e-mail to customers;
- post them on your website;
- distribute them at industry events.

cerncourier.com

Career videos

An outstanding way to make your vacancy stand out from the rest, a career video offers the chance to showcase your organisation's culture and best features. CERN and Jefferson Lab have already taken advantage of this powerful recruitment tool.

Star product

- A priority position on the home and products pages.
- Enhanced exposure: your product listing remains in the archive and in your company listing until you choose to delete it.

Sponsored search terms

This is an innovative way of driving quality, focused traffic direct to your website.



The screenshot shows the homepage of cerncourier.com. At the top, there is a navigation bar with 'Home', 'Programs', 'Sponsors', and 'IOP'. Below this, there is a 'WELCOME' section with a featured article about the CERN Courier magazine. The 'LATEST ISSUE' section highlights the July/August 2010 Volume 50 issue. A 'KEY SUPPLIERS' section features Agilent and MEGA. There are also sections for 'NEWS', 'FEATURES', and 'FEATURED COMPANIES'. The Agilent logo is prominently displayed in the 'KEY SUPPLIERS' section.

1 Banner advertising

- A top-level banner gives you presence throughout the site.

2 Key supplier

This provides you with detailed representation on *cerncourier.com*, offering essential information to our users and capturing sales leads in the process by building a multipage microsite.

3 Featured company

- Extremely high visibility: located on the homepage.
- Your logo and link alongside relevant editorial.
- A detailed listing in our company finder.
- Monthly reports to quantify your return on investment.

"I am very happy with our key supplier status as we have received several inquiries directly from **cerncourier.com**."

– Christian Galeuchet, Business Co-ordinator & E-Marketing Expert, Agilent Technologies SA

cerncourier.com

1 Star jobs

- A featured flag at the top of the jobs page for the duration of the booking.
- Homepage exposure for the duration of the booking.
- A jobwire listing sent to 9600 subscribers for the duration of the booking.

2 Star employer

- A highly visible animated banner on the jobs page for the duration of booking.
- A standard listing on the jobs page or a hyperlink to your chosen URL.

3 Career videos

An outstanding way to make your vacancy stand out from the rest, a career video offers the chance to showcase your organisation's culture and best

The screenshot shows the CERN Courier website interface. At the top, there's a navigation bar with 'Register for physicsworld.com's free webinar' and 'Computational Fluid Dynamics simulation in Real-World Products'. Below this, there are sections for 'LATEST JOB POSTINGS', 'JOBSEEKERS', 'STAR EMPLOYERS', and 'COMPANY SPOTLIGHT'. The 'JOBSEEKERS' section includes a search bar and a list of job postings with details like 'Staff Scientist - Menlo Park, CA', 'Postdoctoral scientist for time-resolved X-ray scattering', and 'Detector scientists (F/T) - Hamburg, Germany'. The 'COMPANY SPOTLIGHT' section features the EMBL logo. There are also sections for 'STAR EMPLOYERS' with logos for TBA and FEI, and 'CAREER VIDEOS' with a video thumbnail.

features. CERN and Jefferson Lab have already taken advantage of this powerful recruitment tool.

4 Company spotlight

- Premium logo positioning on the jobs homepage.
- Logo click-through to the company profile page.
- A standard listing on the jobs page.
- Listings in the weekly jobwire.

Text listing

- One month's exposure on the jobs page.
- High visibility: initial homepage exposure.
- Inclusion in the weekly jobwire.

CERN Courier magazine

CERN Courier's status as a highly valued resource in the physics community offers you a direct route to skilled job seekers in high-energy physics, scientific computing and related areas. The dedicated recruitment section in the magazine directs our 72 000 readers to your vacancy. They are looking for positions ranging from graduate to senior level, including:

- heads of industry
- chairs
- lecturers
- research associates
- fellowships
- postdoctorates
- engineers

The screenshot shows the 'RECRUITMENT' section of the CERN Courier magazine. It features several job listings with detailed descriptions and application information. The listings include:

- Max-Planck-Institut für Physik (Werner-Heisenberg-Institut):** 2 ATLAS Postdoctoral Positions. The text describes the ATLAS experiment and the role of the postdoctoral fellows.
- Postdoctoral Fellow:** Accelerator Development Series Light Source. The text describes the role of the fellow in the development of the light source.
- Academic position in theoretical high-energy physics:** A full-time research position in the Department of Physics and Astronomy of the University of Leuven.
- Department of Physics and Astronomy KU Leuven, Belgium:** Information about the department and contact details.

The advertisement is for the 'Chair and Lectureship in Particle Accelerator Engineering' at Lancaster University. It features the Lancaster University logo and a photograph of Professor Malcolm Joyce. The text describes the role, which involves leading a research group and contributing to the development of tomorrow's particle accelerator systems. It highlights the prestige of the position and the opportunities for career advancement. The closing date for applications is 30th June 2010.

cerncourier.com
39 000*
unique visitors a month

*Google Analytics 6-month average figure, Nov 09 – Apr 10.

As well as eight weeks' free exposure on **cerncourier.com**, job adverts will also benefit from inclusion on **brightrecruits.com**.

brightrecruits is a recruitment website that connects employers from different industry sectors with graduates and industry professionals who have qualifications and experience in physics.

Display

CERN Courier display advertising rates 2011 (£)			
	1x	5x	10x
Full page			
Full colour	4260	4010	3840
Mono	3240	3050	2920
Half island			
Full colour	3120	2940	2810
Mono	2400	2260	2160
Half vertical			
Full colour	2810	2640	2530
Mono	2200	2070	1980
Half horizontal			
Full colour	2810	2640	2530
Mono	2200	2070	1980
Third vertical			
Full colour	2110	1980	1900
Mono	1720	1620	1550
Quarter			
Full colour	1560	1470	1410
Mono	1350	1270	1220
Eighth			
Full colour	1020	960	920
Mono	820	770	740

Subject to change

Online display advertising rates 2011 (£)		
	Duration	£
Featured company	12 months	1330
Top-level banner	1 month	980
Buyer's Guide sponsorship banner	1 month	500
Key supplier		
5-page site	12 months	5000
10-page site	12 months	10000
Latest issue alert sponsorship	1 month	400
Sponsored search terms, 3 words	6 months	1000
	12 months	1500
Star product	12 months	500
Feature product	12 months	350

Subject to change

Recruitment

SCC rates (£)*		
	non-university	university
Mono	70	60
Spot colour	75	65
Full colour	80	75

Subject to change
*Single column centimetre

Set size discounts – mono (£)	
	non-university
Half page	3000
Full page	5990
Double-page spread	Price on application

Subject to change

Example bespoke sizes – mono (£)		
	non-university	university
5 cm × 2 col	700	600
10 cm × 2 col	1400	1200
12 cm × 2 col	1680	1440
15 cm × 2 col	2100	1800
10 cm × 3 col	2100	1800
20 cm × 3 col	4200	3600

Subject to change

Online recruitment advertising rates 2011 (£)						
	non-university			university		
	30-day	60-day	90-day	30-day	60-day	90-day
Job posting	550	1040	1480	260	490	700
Star job posting	700	1330	1890	400	760	1080
Star employer	620	1180	1680	350	670	950
Company spotlight	950	1810	2570	450	890	1260
Site-wide banner	1200	2280	3240	700	1330	1890
Career videos	price on request			price on request		

Subject to change

Display advertising

FULL-PAGE BLEED
219 × 288 mm
8⁵/₈ × 11⁵/₁₆ inches

TRIM SIZE
213 × 282
8³/₈ × 11¹/₁₆ inches

NO BLEED
193 × 262
7⁵/₈ × 10⁵/₁₆ inches

Print adverts

Adverts should be supplied as high-resolution PDF files, although we can usually accept TIFF, JPEG and EPS files. All files must be 300 dpi and CMYK with fonts embedded.

QUARTER
91 × 125
3⁹/₁₆ × 4⁷/₈ inches

HALF ISLAND
120 × 193
4¹/₁₆ × 7⁵/₈ inches

THIRD VERTICAL
63 × 262
2¹/₂ × 10⁵/₁₆ inches

THIRD SQUARE
125 × 125
4⁷/₈ × 4⁷/₈ inches

HALF HORIZONTAL
193 × 125
7⁵/₈ × 4⁷/₈ inches

Dimensions given in millimetres/inches

Recruitment advertising

FULL PAGE
26 cm × 4 col
10¹/₄ inches × 4 col

The column length is 26 cm (10¹/₄ inches) and a full page is four columns wide. Adverts can span one, two, three or four columns (below are some of the most popular options). The sales team is happy to advise on advert sizes geared to the amount of text and budget available.

HALF VERTICAL
26 cm × 2 col
10¹/₄ inches × 2 col

QUARTER
13 cm × 2 col
5¹/₈ inches × 2 col

CREDIT CARD
5 cm × 2 col
1¹⁵/₁₆ inches × 2 col

RECRUITMENT

For advertising enquiries, contact CERN Courier at: CERN Courier Publishing, Office House, Temple Back, Bristol BS1 2BE, UK.
Tel: +44 (0)1275 336124 Fax: +44 (0)1275 336126 Email: enquiries@cerncourier.com
Please contact us for information about rates, colour options, publication dates and deadlines.

Max-Planck-Institut für Physik (Werner-Heisenberg-Institut)

2 ATLAS Postdoctoral Positions

The Max-Planck-Institut für Physik is seeking 2 postdoctoral research positions in particle and astroparticle physics from both experimental and theoretical perspectives. The team researches the ATLAS experiment at the Large Hadron Collider (LHC) at CERN. The outputs have contributed to the design, construction and commissioning of the detector: detector Tracker, the Hadronic Endcap Calorimeter, the Muon Spectrometer, and recently a CMS, where in the Reference March 2012 operating centre for ATLAS.

We now applications for 2 postdoctoral positions in experimental particle physics within our ATLAS Group. Successful candidates are expected to participate in the group's efforts to operate and maintain the ATLAS detector. In particular, the leading components identified by our mandate. One candidate is expected to play a significant role in the research and development efforts for the upgrade of the ATLAS Hadronic endcap calorimeter. The second candidate is expected to take over responsibility for the smooth operation and further development of our ATLAS 2012 computing centre at Munch. Both candidates should also contribute to the ATLAS data analysis efforts - covering other topics - on detector performance studies and on measurements of standard model processes with first data. Salary and benefits are according to the German public service pay scale (TVöD-Bund). The contracts are initially limited to three years with the possibility of extension within the frame of the German Wissenschaftszeitvertragsgesetz.

For enquiries concerning the positions please contact Dr. Stefan Müller (muel@mpipz.mpg.de), for the subdetector groups or PD Stefan Kuhl, PhD (skuhl@mpipz.mpg.de). Interested applicants should send an application letter (including curriculum vitae, list of publications and a statement of research interests) and arrange for three letters of recommendation to arrive on-line (due June 16, 2011) at the following addresses:

Max-Planck-Institut für Physik (Werner-Heisenberg-Institut)
Dr. Stefan Müller
Postfach 106 528, D-80805 München, Germany
E-mail: skuhl@mpipz.mpg.de

Academic position in theoretical high-energy physics

A full-time tenured academic position is available at the Department of Physics and Astronomy of the University of Leuven, Belgium starting October 1, 2011 in the field of theoretical high-energy physics.

More information can be found on the web:
<http://www.ku-leuven.be/physics/department/science.html>

Closing date: September 30, 2011

The full-time position can be filled by one of the academic levels: full professor, associate professor, assistant professor, depending on the qualifications of the candidate. The level of assistant professor will be offered for a period of five years. A positive evaluation of the end of the five-year appointment will result in a tenured appointment as associate professor.

The KU Leuven is an equal opportunity employer. Non-Dutch speaking candidates should be able to teach in Dutch within three years.

Department of Physics and Astronomy
KU Leuven, Belgium
http://www.ku-leuven.be/physics_eng

Postdoctoral Research Position in Experimental Particle Physics - CMS experiment

The experimental high energy physics group of the Collaborative Compact for Luminosity (CCL) is seeking to hire a postdoctoral research position for the CMS experiment at the Large Hadron Collider (LHC).

CCL has been established to design and commission the CMS detector and to coordinate the construction, testing and commissioning of the CMS detector. The group is currently in the final stages of construction and commissioning of the CMS detector. The group is also involved in the CMS detector simulation and reconstruction software development. The position is dedicated to the analysis of the CMS physics data at high energy, in synergy with the other members of the CMS group. The research candidate is expected to be based at CERN in the framework of the CMS detector construction activities. **Additional information regarding the position can be obtained from Prof. Christiane Peters.**

Information: christiane.peters@cern.ch tel: +41 78 607 5807

Applications will have to be received in person at CERN, with the availability of places within the research, testing and commissioning phases. Candidates have to be of the EU, EFTA, OECD countries, or have a PhD degree in physics and a minimum of 3 years of postdoctoral experience in particle physics. The position is funded by the CCL program and is open to candidates of any nationality. Applications, including curriculum vitae, a list of publications and at least three letters of recommendation, should be submitted before September 30, 2011 to the following address: info@ku-leuven.be, KU Leuven, Dept. 183005 Leuven.

The position will remain open until a suitable candidate is found.

Postdoctoral Fellow

Detector Development Group Light Source

Your tasks:

- Test and characterization of medical pipes
- Work on the development of the most efficient calibration and optimization of the pipe, including measurements and data analysis
- Perform experiments in X-ray and synchrotron

Your profile:

- PhD in physics preferably in the field of detector development. You have some knowledge of medical and digital electronics and wanted to work in medicine.
- Experience in C++ programming, data analysis and experience in experimental and theoretical developments would be an advantage. You will work in a laboratory in an industrial environment, giving you excellent opportunities for your scientific and professional growth.

For further information please contact Dr. Bernd Schmidt, phone +41 56 340 24 14, bernd.schmidt@cern.ch

Place: Munch (first application deadline: 2 September 2011) The Collaborative Compact for Luminosity (CCL) is seeking to hire a postdoctoral research position for the CMS experiment at the Large Hadron Collider (LHC).

Online advertising

All banners and logos must be supplied as GIF, JPG or Flash files with "alt" text and a URL to which to link the banner or logo.

The maximum length of animation for animated GIF and Flash files is 15 seconds, with a maximum of three loops through the animated sequence.

The following additional specifications apply to Flash adverts:

- An alternative GIF or JPG image file must be provided as a graceful degradation option for browsers that do not support Flash.
- Subsequent downloading is not permitted.
- Expansion is not permitted.
- Any audio included may only play when initiated by the user.
- Adverts must have a solid background colour (i.e. not transparent).

- Advertisers must warrant that they have tested adverts for technical stability on Internet Explorer, Firefox, Opera and Safari browsers prior to supply. For the purposes of these guidelines, stability is defined as not causing error messages, dialogue windows, excessive CPU usage, browser crashes or system crashes.

VAT

All UK and European Union advertisers are subject to VAT at 17.5%. EU advertisers outside the UK supplying their MWst/TVA/VAT numbers are exempt from VAT.

Diagram illustrating various banner and logo sizes for online advertising:

- site-wide banner: 468 x 60 px
- square banner: 160 x 160 px
- Star employer logo: 160 x 60 px
- Company spotlight logo: 160 x 60 px

Diagram illustrating various banner and logo sizes for online advertising:

- category banner: 468 x 60 px
- MPU banner: 300 x 250 px
- Corporate partner logo: 160 x 60 px
- Key supplier logo: 160 x 60 px



Size and shape specifications for online adverts			
	Dimensions (pixels)	Max. file size GIF, JPG (KB)	Max. file size animated GIF, Flash (KB)
Site-wide banner	468 x 60	20	40
Square banner	160 x 160	15	20
Star employer logo	160 x 60	5	N/A
Company spotlight logo	160 x 60	5	N/A
MPU banner	300 x 250	20	40
Category banner	468 x 60	20	40
Corporate partner logo	160 x 60	5	N/A
Key supplier logo	160 x 60	5	N/A

Display



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Recruitment



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