

Fun with physics

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Testing a test stand

DESY has a brand-new test stand for cryomodules that is being used for the first time these days. The test object is Module 6, which will be built into FLASH in 2007. DESY inForm will keep you posted on the results.

Freud and Women

Already during his lifetime the psychoanalyst provided hot topics for discussions. Psychoanalyst Dr. Benigna Gerisch reveals Freud's paradox relationship to women that were his companions, muses and patients. Nov. 15, 19 h, auditorium (in German)

inForm all-round

DESY inForm is now also available online. You can read the latest issue even when you are on a business trip. Even more convenient: order the newsletter via email. www.desy.de→News

Director's Corner



DESY inForm provides regular information about progress on projects and all kinds of developments in Hamburg and Zeuthen. We notice it every day: communication poses one of the greatest challenges for any enterprise, including DESY. So many things happen throughout the year that just one address to DESY staff per year is not sufficient. This is why I proposed that all directors will bring up topics of your interest and answer questions in this column. Just write us an e-mail with your questions or proposals for improvement. We will try to answer quickly and deal with the most important topics in this column.

Sincerely yours,
Albrecht Wagner

A Magnet Travels Around the World

Japanese magnet on loan at DESY for detector development

"PCMAG" is its awkward name and it weighs 400 kilograms only—featherweight as far as magnets go. For this reason the superconducting magnet could be sent by air freight from Japan as a single unit. It is an important ingredient for the construction of ILC detector prototypes whose development and research are coordinated within the EUDET project in Europe.

A couple of DESY colleagues obtained the magnet from KEK on behalf of the project. They are expecting delivery these days. In the next months, the item on loan from Japan will play an important role in the researchers' development work. For the testing of prototypes of future detectors, the project plans to build a highly flexible test infrastructure for Europe-wide utilization. For DESY, the magnet is a stroke of luck since only PCMAG



The core of new experiments: The tracking system of a future ILC detector will be tested inside the "mini" magnet.

meets the special requirements for this infrastructure. Usually superconducting magnets form the core of huge particle detectors. They are permanently built in, weigh tons and require a complicated infrastructure. In contrast, the small PCMAG needs neither permanent helium lines nor electrical cables. Just fill it with helium, excite it using a source of electrical power and it will run for about two

weeks, producing a strong magnetic field of 1.2 Tesla inside the coil.

The "small" magnet acts like a mini version of its bigger brothers. Inside, researchers will install prototypes of future ILC detector parts, for example small versions of tracking chambers and pixel vertex detectors. (she)

Seal of Quality for Vocational Training

Zeuthen trainee awarded best of class

Once again, a Zeuthen trainee has come best of class in industrial mechanic training, equipment and precision technology sector. On October 12, Sebastian Philipp received the award from the Cottbus chamber of industry and commerce.

The diploma for his outstanding score of 93, achieved in his final examination 2006, was handed out to him during a ceremony in the Cottbus conservatory. This is also a seal of approval for the Zeuthen mechanics workshop and

for instructor Jürgen Grote, who took over the leadership of the industrial mechanic training for equipment and precision technology last year and continues the tradition successfully. (ub)



Sebastian Philipp (2nd from left), standing next to his instructor, at the ceremony in Cottbus

Construction work beside the FLASH tunnel

A new building for the laser diagnostics of the electron beam

Anyone wanting to take a stroll from the FLASH experimental hall along the wall of the FLASH tunnel towards Hall 3 these days suddenly found the way blocked by a construction site. This will probably last a few more months, as a 26-meter building for the FLASH laser diagnostics is currently being erected along the tunnel. The 150-square meter building will house up to five labs with laser systems to measure properties like the bunch length of the electron beam. The laser beams will



These pipes connect the new building with the inside of the tunnel.



The construction site of the laser diagnostics building alongside the FLASH wall in October 2006.

be led in three pipes through the earth wall into the tunnel. The pipes had to be built during the three-week shutdown of FLASH. Construction will take place in two steps: the first part of the building will be completed by the end of January; the second part is to be erected between April

and July. The containers which currently house the labs for the Electro Optical Diagnostics (EOD) will then be removed. The way along the FLASH wall will probably remain closed until the laser diagnostics building is completed in summer 2007. (pr/fel)

Young scientists

We often read keywords like elite university and excellence initiative in the press. This BMBF initiative comprises the university sector and non-university research. Moreover, excellent education and career opportunities will be offered to young scientists. In the past, they had to wait years to reach scientific autonomy. With the tool "young scientists' groups" they can reach independence much earlier. DESY already has several young scientists' groups. In the coming weeks, two of them will present their research activities in the Tuesday Seminar. (Tobias Haas)

Erika Garutti:
"Silicon-Photomultipliers Technology and their Application in HEP Detectors"
21. November (Hamburg, 17 h)
22. November (Zeuthen, 15 h)
Jenny List:
"Beam Polarisation at the ILC: Precision Polarimetry and Physics Impact"
28. November (Hamburg, 17 h)

Open Access to Scientific Publications

This initiative aims at free access to research results

High costs for scientific journals and access restrictions to websites are not popular among scientists. In the "Berlin Declaration" all German research organizations have agreed to support the Open Access Initiative. Compared to other institutions, DESY has the advantage that the principle of Open Access is familiar to high energy physicists: they already use electronic preprint archives. Now this

principle is to be applied to other subject areas and journal publications.

In order to actively support this process at DESY, the directors and the library encourage scientists to publish their research results in Open Access journals or to demand their right to put their articles in a publicly accessible archive. The chief attraction for scientists: Open Access

papers are cited more frequently—which is important for their reputation. The taxpayers' argument: when publicly funded scientific results are published in conventional scientific journals, they have to be paid for twice.

DESY sets a good example in promoting this initiative. The library shows that the use of the publication database and precise rules for

Open Access at DESY provide a good basis for a leading role in this field. (she)

More information, see:
Library: <http://library.desy.de/>

The Scientist: www.the-scientist.com/news/display/23448/

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