

### Around the World

#### From KEK: Call for opinions: Japan faces severe science budget cut

The research program at High Energy Accelerator Research Organization (KEK) is facing a grave possibility of a severe budget cut, as recommended by the recently issued Public Budget Review by Japanese



Atsuto Suzuki, KEK Director General

government. This affects Japanese renowned research programs including the ones hosted by KEK, such as elementary particle physics and related fields in astrophysics, material and life sciences. More than 260 universities and laboratories attend these programs. I would like to take this opportunity to explain to you what KEK is doing to enhance its research and education programs, and also would like to solicit your opinions.

[Read more...](#)

-- Atsuto Suzuki, Director General, High Energy Accelerator Research Organisation (KEK)

### BlogLine

1 December - *Frank Simon*  
[That was fast: First LHC Physics Paper](#)

28 November - *Frank Simon*  
[The Spin of the Proton: It's a Long Road](#)

... and don't miss Nicole Ackerman's posts on "Women in physics" ([theory](#) and [data](#))

[Follow all Quantum Diaries](#)

### Calendar

Upcoming meetings, conferences, workshops

[ILC Accelerator Design & Integration Meeting](#)

### Feature Story

#### EU projects get musical

All about the AIDA project proposal



It's projects like the EUDET telescope – pictured here at work in the CERN test beam for the ALFA project – that AIDA wants to take further. Image: Sune Jakobsen

Greek mythology, cartoon characters and plays on words – projects and collaborations in high-energy physics don't always conform to the stereotype of the incomprehensible acronym. If a new project to be submitted to the European Commission for funding, answering a call from it Seventh Framework programme (FP7), gets approval, the world of opera can be added to the list above. AIDA – for Advanced European Infrastructures for Detectors and Accelerators (the E from European is silent) – would draw together every group and project in Europe working on detector R&D for next-generation projects.

[Read more...](#)

-- Barbara Warmbein

### In the News

From *Mainichi.jp*  
1 December 2009  
事業仕分け: 科技予算見直し、厳しい判定に反発強く 科学重視、効率化が課題  
[Read more...](#) (in Japanese)

From *Daily Herald*  
1 December 2009  
**Fermilab has no hard feelings toward lab that bested it**  
[Read more...](#)

From *Times online*  
1 December 2009  
**Physicists fear CERN costs are a threat to nuclear energy research**  
[Read more...](#)

From *New Scientist blog*  
30 November 2009

### Director's Corner

#### "Open Sesame"



The large SESAME building, 75 metres by 75 metres, built by the Jordanian government

Most of us have known the expression "Open Sesame" since childhood and have associated it with magic powers. It comes from the tale of "*Ali Baba and the forty thieves*," when by magic, Ali Baba is able to open the door to the hidden treasure with that simple command. Last year, an exciting new laboratory in Jordan also named SESAME celebrated what they called a "soft" inauguration (or "opening"). Soft because it denoted the official start of this project by completion of the impressive accelerator building that will house the facility and the start of installation of the injector. These are visible first steps toward developing a state-of-the-art synchrotron light facility for the Middle East. I had the pleasure of visiting SESAME last month and spent very informative days meeting with the staff and learning of their detailed plans and aspirations.

[Read more...](#)

-- Barry Barish

### Director's Corner Archive

### Image of the Week

#### LHC sets new world record



CERN's Large Hadron Collider became the world's highest energy particle accelerator on 30 November, having

DESY, Germany  
2-3 December 2009

[Low Emittance Rings 2010 \(LER2010\)](#)  
CERN  
12-15 January 2010

### Upcoming school

[The US Particle Accelerator School sponsored by the UC Santa Cruz](#)  
Santa Cruz, CA, USA  
18-29 January 2010

### [GDE Meetings calendar](#)

[View complete ILC calendar](#)

### Is British nuclear physics doomed?

[Read more...](#)

From *Libération*  
30 November 2009  
«**Dès 2010, le LHC produira une physique excitante**»  
[Read more...](#) (in French)

From *Yomuri Online*  
30 November 2009  
科技予算、「仕分け」と「総合会議」で評価食い違い  
[Read more...](#) (in Japanese)

From *The Yomiuri Shimbun*  
28 November 2009  
**6 Nobelists hold talks with Hatoyama on science funds**  
[Read more...](#)

From *AFP*  
26 November 2009  
**Japan scientists attack govt research cut plans**  
[Read more...](#) (in English)  
[Read more...](#) (in French)

From *Nikkei.com*  
25 November 2009  
「若手育成、未来の投資」 事業仕分けにノーベル賞受賞者ら懸念  
[Read more...](#) (in Japanese)

From *IPMU*  
24 November 2009  
**Funding cuts threaten globalization of Japanese science, scientists fear**  
[Read more...](#)

From *J-PARC*  
24 November 2009  
**First Neutrino Events Observed at T2K Near Detector**  
[Read more...](#)

From *Polskie Radio Online*  
23 November 2009  
**Co po LHC?**  
[Read more...](#) (in Polish)

From *Nature*  
17 November 2009  
**Japanese science faces deep cuts**  
[Read more...](#)

accelerated its twin beams of protons to an energy of 1.18 TeV in the early hours of the morning. It marks another important milestone on the road to first physics at the LHC in 2010. Image: CERN

Read the [press release](#)  
View [more photos](#)  
Watch the [video](#)

### Announcements

#### arXiv preprints

[0911.5575](#)

Comparison of Measurements of Charge Transfer Inefficiencies in a CCD with High-Speed Column Parallel Readout

[0911.5551](#)

Study of Higgs self couplings of a supersymmetric  $E_6$  model at the International Linear Collider

[0911.4995](#)

Higgs mediated Double Flavor Violating top decays in Effective Theories

[0911.4868](#)

Correlations between high- $p_T$  and flavour physics

[0911.4575](#)

Energy Reconstruction of Hadron Showers in the CALICE Calorimeters

[0911.4508](#)

Probing Long Range Scalar Dark Forces in Terrestrial Experiments