



Klub ALF Teachers Programme & 3D movie project (and some more news from Austria)

Laurenz Widhalm
IPPOG Meeting Košice

April 14th – 16th, 2011

feedback: LHC-”Simulato

- originally built for the „grenzgenial-exhibition
- **very successful** – requests from several other exhibitions, and orders for 2 more copies for a Science Center in Carinthia and the federal stage exhibition of Lower Austria



Technical Museum of Vienna



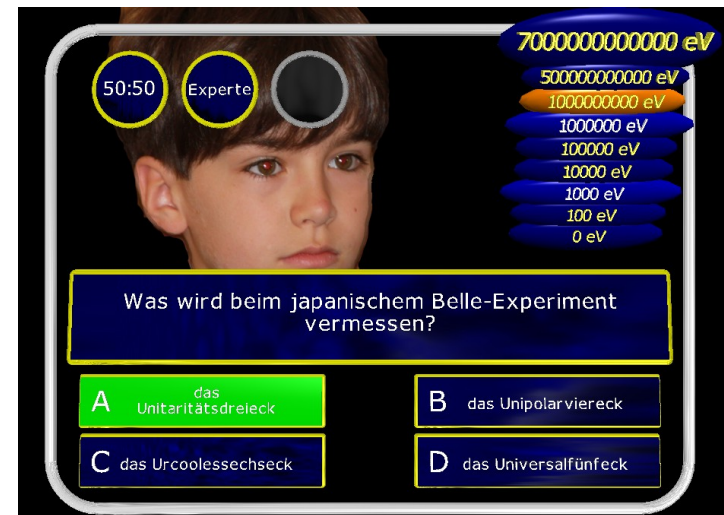
Vienna Researcher's Fest

Just wanted to mention it: HEPHY is also taking its first steps on facebook...

screenshot

CERN Travelling Exhibition

- **currently in Austria**
(Ökopark Hartberg, Styria)
- **extended with parts of the HEPHY exhibition** to display Austria's involvement
- **extensive programme:**
 - grand opening on February, 16th
 - several public talks
 - **symposium in May: physicists discuss with philosophers, economists and journalists**
 - **student's days (for 6-18 year olds) in June (featuring the „7 Billionen Elektronenvolt Show“-Quiz)**
- **~2500 visitors/month so far**



Impression from the Grand Opening



Victor Hess Year 2012

- **planning has already started**
- **many coordinated events in all Austria, organized by various institutes, over the whole year**
- **four key events planned:**
 - **kick-off event in Vienna**
 - **historical-scientific symposium in Pöllau, combined with a balloon-ride event for the public**
 - **scientific event in Innsbruck, combined with guided tours for the public to Hess' lab on the Hafelekar**
 - **closing event at the annual meeting of the Austrian Physical Society in autumn**



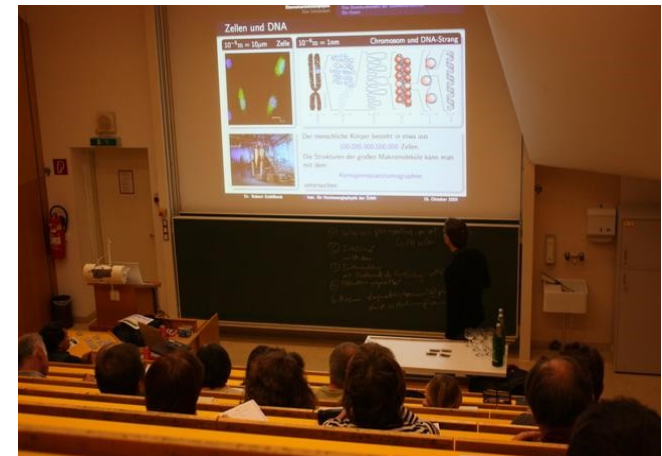
Klub ALF

a new Programme for Physics Teachers

- **several participating institutes** (besides particle physics also including nuclear physics, quantum optics, astronomy)
- teachers are **actively involved in scientific activities**
- the concept of the club is to create a **sustainable link between educators and scientists**
- teachers are encouraged to give **feedback on their experiences in class** to the club
- a **kick-off event** took place on 3rd March, we had the **first Klub ALF masterclass** at HEPHY on 21st March



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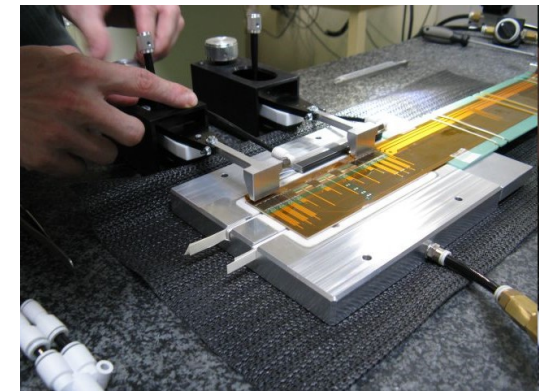
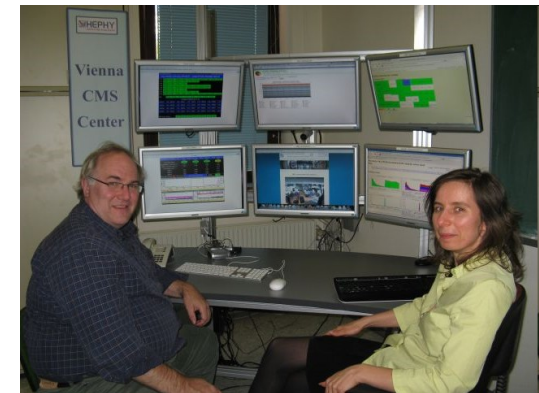


Klub ALF HEPHY course programme

- a **masterclass** (more or less the IPPOG masterclass you know), which is prerequisite to attend the
- **Modules:**
 - **„The Search for Dark Matter“:**
 our CMS analysis group demonstrates how LHC data is analysed „in the real physicist’s life“
 - **„Particles from Space“:**
 measurements on muons using scintillators
 - **„Particle Detectors in Research and Everyday Life“:**
 demonstrations in our semiconductor detectors lab



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3D movies

- idea triggered by the fact that there is a **3D theater at the location of the CERN travelling exhibition** in Hartberg
- **two productions:**
 - a 1' **trailer** for the exhibition
 - a 15' **movie** „Inside_LHC“ (filmed during the LHC shutdown in January)
- **produced in theatrical quality** (Digital Cinema Package, 2K resolution, 5.1 sound)
- **suitable for all available 3D technologies** (anaglyphic, shutter & polarized goggles)

