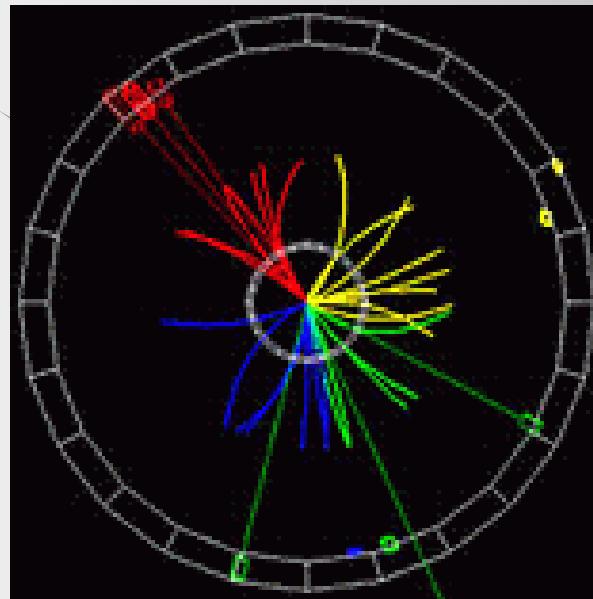


*International Masterclasses
“Hands on Particle Physics”
2007-?*

<http://wyp.teilchenphysik.org>



EPPOG outreach meeting, CERN, 6.10.2006

**Michael Kobel
Dresden University
Germany**

Outline

- **Masterclasses 2006 in retrospect**

- **News**

- Echo
 - Corporate Identity
 - Plans for Funding

- **Future**

- Short term: 2007
 - Can we make it w/o much funding?
 - Long term: ≥ 2008
 - Format?
 - Funding?

Masterclasses 2006: New Features

● Dates: Two Components

● International Masterclass Weeks w/ video conf

- 12 student days: 6.3.06 – 21.3.06
- 1 teacher's day: Sa 18.3.06
- ~ 5 institutes/ day = **65 masterclasses**
- most days: DELPHi + OPAL data for Z0 decays

● Institute masterclasses w/o video conference

- January – April 06: **22 masterclasses**
(not counting the UK masterclasses)
- Schedule (no longer the final, since site was hacked ☹)
 - <http://wyp.teilchenphysik.org/>

● Video Conference

- more lively, quiz adds big fun for students
- exported desktop: more stable
- 3 brilliant moderators (Dave, Silvia, Mike)

Participation

- **59 institutes from 18 countries (unchanged)**

- countries
 - ↳ new: CH and US (→ non-European!)
 - ↳ paused: CERN and FI
- 15 (!) new institutes, (15 paused)
 - ↳ AT: Wien Univ
 - ↳ CH: Zurich
 - ↳ D: Dresden, Siegen
 - ↳ ES: Granada, Zaragoza
 - ↳ I: Udine
 - ↳ PT: Coimbra
 - ↳ SK: B. Bystrica, Nitra, Presov, Trencin, Trnava
 - ↳ US Quarknet: Brookhaven, Florida State

- **Estimated number of students: 3135**

- 8 institutes participated more than one day
- **3 +2 towns: teachers' day on Saturday, 18.3.**
 - Athens, Barcelona, Katovice, (Torino); April: Vienna

News: Echo

- **Immediate local echo : quite good, depending on site evaluation sheets**
 - only about 12/59 sent to Dresden
 - no central personpower for evaluation (in contrast to 2005)
italian evaluation:
www.pd.infn.it/masterclasses2006/MasterclassReportPLS.ppt
- **articles**
 - Physics education (still pending from 2005, IPN, Erik, M.K.)
 - CNL: CERN Computing Newsletter (Joao)
<http://cnlart.web.cern.ch/cnlart/2006/003/9>
<http://www.cerncourier.com/articles/cnl/3/6/9/1>
 - Symmetry (Jennifer L. Lee, supported by Beth & Ken)
<http://symmetrymagazine.org/cms/?pid=1000362>
 - Web, esp. Italy, including audio interviews
www.frisimonza.it/scuola/news/20060306masterclassfrascati/
www.fis.uniroma3.it/ScuoleSup/orientamento_MC_2.htm#interviste
 - Others?

Corporate Identity

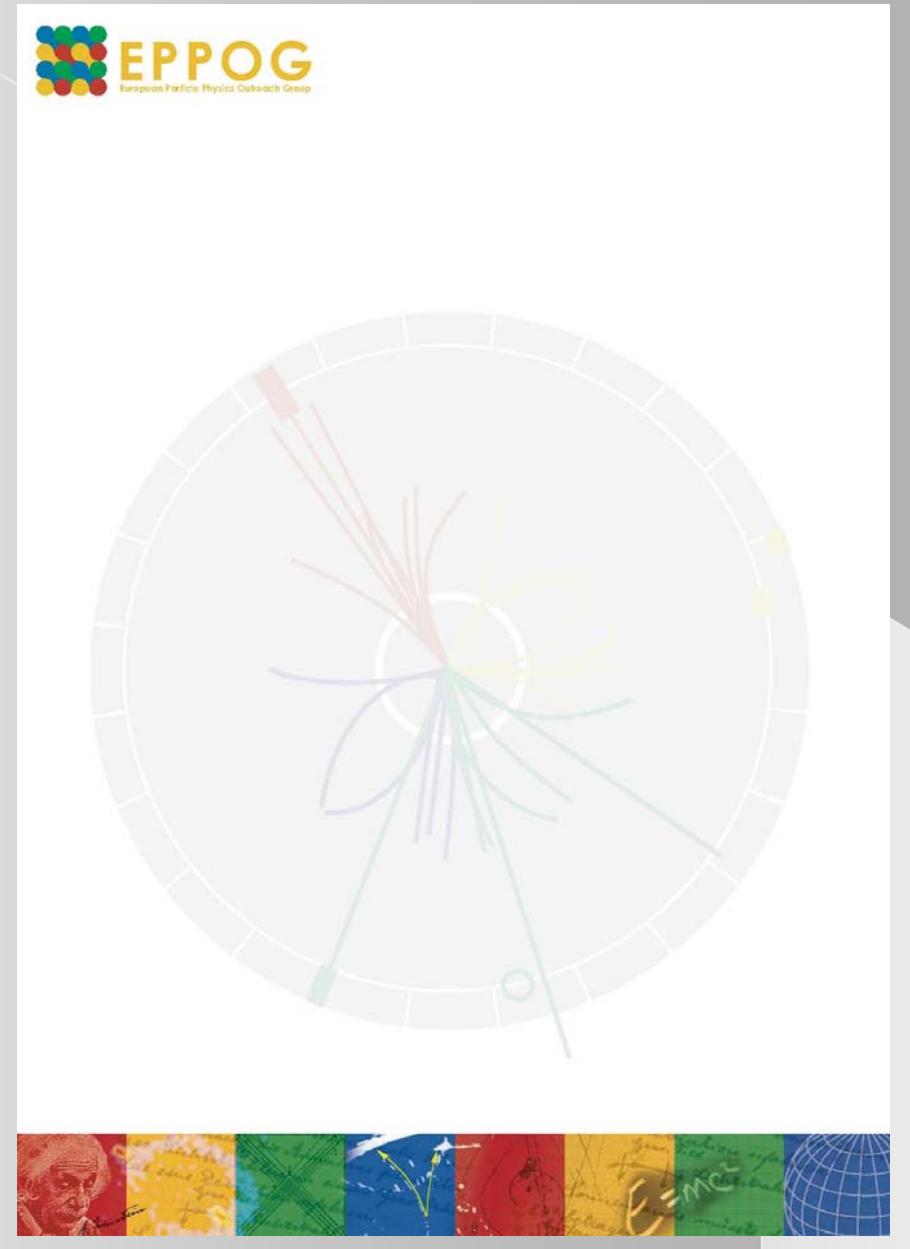
- **DESY Zeuthen Experiments' Support (ExpS) works on**

- A3, ppt: posters, signposts, etc.
- A4, Word: infoletters, press releases, programs, evaluation forms, etc.
- A4, ppt: talks, worksheets, etc.
- A4, ppt: certificates (more colorful)
- "A7", word: badges
- Possibly also: new CD-Cover

- **Concept**

- communication, knowledge exchange (some w/ people)
- particle physics (event)
- EPPOG (Logo)
- recognize current design

Draft Examples (thanks to DESY ExpS)



Funding

- **So far funding (often in-kind) for**
 - people (CD+updates, Website, Organisation):
2005+2006 German research ministry BMBF
 - hardware (CD, brochures, comics, card games)
2005: EPS(CDs) + CERN(comics) + DESY(brochures)
2006: BMBF(CDs) + CERN(prizes) + DESY(brochures)
 - VRVS support
2005+2006 CERN + Slovak ministry
- **Future funding prospects**
 - No further German BMBF support (change of „politics“)
 - CDs from EPS (already for 2007) possible (Erik)
 - German Bosch Foundation (prob too late for 2007)
 - ◆ Funds programs for scientists+**teachers**+students
 - ◆ **No „once-a-year“ events**
 - ◆ Application with Dresden didactics (+...?) imminent
 - ◆ Funding possible for material, travel, student-assistents
 - **Interest + funding (esp for 2008-) from US!**

Future?



YES !

Near term: 2007

- **Only possible in March (LHC startup in autumn!)**
- **Again with minimal funding (wider concept for 2008-)**
 - Will be (again) *very* tight!!
- **Need to start and organize *now***
 - How many institutes (Europe, UK(?), US(?))
 - Suggested Dates: Mo 19.3 – Fr 30.3.2007
if too many institutes: already start Th 15.3.
- **Ressources needed / People involved**
 - Supervision: Europe: MK(+) US: ?
 - Moderators: Silvia, Dave, Mike (+US?)
 - Website and CD update: CERN stagier(e) (?)
 - Organisation, Schedules, etc: Dresden student assistant (?)
(with help from US?): term: 11/06-03/07
 - VRVS support: again CERN (Joao) + Slovak (Victor&Marek)team?
 - Media coverage, articles: ?
- **Open questions: teachers day?**
- **Central open question: do it, or skip 2007?**

Long term 2008 – ... needs and questions

- **Organisation (Schedule, Web, CD, etc)**
 - Paid personpower in Europe + US
- **Schedule, together with US**
 - All separate, all mixed, both separate and mixed?
 - How many masterclasses outside of central weeks?
- **New LHC exercises**
 - Paid personpower for development (Athens?)
- **Involvement of teachers**
 - Preparation and wrap-up at school
 - Teacher's day(s)?
 - same format, more/different discussions?
 - Combined with in-service training?
- **Video conference**
 - Long term technical support needed
 - Larger moderator team could be necessary
- **Travels of students (and teachers) as prizes?**
- **Evaluation**
- **Local organisation**
 - might also need some (non-local) funding?

My future role (see also tomorrow)

- **Elected German Outreach Committee „OeKo“ (4 people)**
<http://www.teilchenphysik.org/oeko.htm>
 - chair acts as German EPPOG member
 - my term as chair ends end of 2006
 - successor not yet defined
- **Most probably new German EPPOG member in 2007**
- **German masterclasses will stay with me**
- **Continuation of a central masterclass task possible, if desired by EPPOG**
 - Need long-term structure
 - Need long-term funding
 - Need long-term people

Comments welcome!