

# Swedish/Scandinavian Teachers Programme

- Improvements -

L.Jirden 19.6 2013

# Information and Registration

- How do teachers know about the programme?
  - In general, they don't !!!
  - Via satisfied participant
  - Via CERN Education site
    - -> Teachers Programme -> National Programmes for Teachers -> Sweden -> National contact -> L.Jirden ...
- Needed: “National Information and Registration service”
  - Registration criteria
    - Qualification, priorities, etc.
  - Different levels
    - “Gymnasie” teachers
    - “Högstadiet” teachers
    - Students
  - Payment

# Financing

- Costs
  - Travel, accommodation, meals ~ 800 CHF/person
  - Normally paid by schools/students – varies from school to school
- Swedish/Scandinavian schools
  - limited budget
  - to be shared with all subjects
  - Late decisions → complicates planning
  - teachers not replaced during a course
    - → course periods restricted to end June and end October
- Other funding possible?
  - Is German trick applicable for Sweden/Scandinavia?
    - Courses for “interested people” – not specifically for teachers & students
      - → National Funds
      - EX. Germany: 1 M€ for 3 years

# Programme

- Course evaluation

- In three words: Interesting – Inspiring – well organized
- Liked best Cosmology/Antimatter – medical applications – cloud chamber
- What to improve More breaks – time to think – understand
- Follow-up Contact for questions & support – help setting up experiments for students
- Usefulness Questionable; how to apply at school
- Conclusion Course is excellent (4.8/5) but support and follow-up is needed

# Support & follow-up

- Teaching Materials

- Some exist on EDU site;  
<http://education.web.cern.ch/education/Chapter2/Intro.html>
- In English or German      Needs translation + dispatching
- Sharing between teachers ?

- Tools for lab experiments

- Cloud chamber      description + support needed
- Cosmic ray detection      scintillator tool to be developed
- Data analysis      ATLAS, CMS, ALICE tools to be supported at schools



# Organize & run Programme

- Availability of Swedish (Scandinavian) lecturers sometimes difficult
  - Senior engineers & physicists
  - Young PhD students
  - All very busy...
- Better recognition and visibility in Sweden
- Svenska Fysikerförbundet to make list of people who can participate
- PhD students in Physics Education...