# **The Analysis Centre**

... and its future ...

## Thomas Schörner-Sadenius 🗱







"Workshop on Perspectives of the Analysis Project" **DESY Hamburg** 23 February 2011

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"Workshop on Person of the Analysis Project"
DESY Hambur
23 Februar

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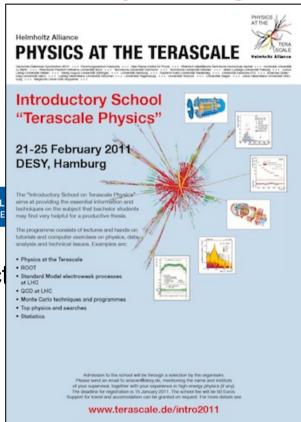






"Workshop on Perspectives of the Analysis Project **DESY Hamburg** 23 February 2011

#### **Currently running:**



- ... concentrating on the Analysis Centre ...
- > The schools and training events!
  - Unanimously stated to be a success! (Schools not only in the Analysis Centre!)





- ... concentrating on the Analysis Centre ...
- > The schools and training events!
- > The topical workshops (also in Detector Project etc.)

... and I think we need more, and better planned!



- ... concentrating on the Analysis Centre ...
- The schools and training events!
- The topical workshops!

## (My personal) Lessons from these two:

- Need stringent (annual) planning for schools, adapted to needs (and numbers) of students.
- Need to interface with CERN etc.; possibility to develop specific expertise?
- ➤ If no budget available for anything else schools and workshops programme must be kept up! Question of ±50k/a.

- ... concentrating on the Analysis Centre ...
- The schools and training events!
- The topical workshops!
- > The Analysis Working groups
  - At least partly and for some time.
  - Put emphasis on documented output, publications (?)
  - How to better identify relevant topics and getting things started?
     → role of and manpower related to the Analysis Centre → later

- ... concentrating on the Analysis Centre ...
- The schools and training events!
- The topical workshops!
- The Analysis Working groups
- > The VTI and Analysis Centre seminar series
  - In my opinion need to be unified
  - Possibly create one central weekly slot for Alliance activities, to be filled by any Alliance-related activity?

- ... concentrating on the Analysis Centre ...
- The schools and training events!
- The topical workshops!
- The Analysis Working groups
- The VTI and Analysis Centre seminars
- > The funding possibilities for guests and visitors.

- ... concentrating on the Analysis Centre ...
- The schools and training events!
- The topical workshops!
- The Analysis Working groups
- The VTI and Analysis Centre seminars
- The strong funding for guests and visitors.
- > (At least from a DESY perspective ?):
  - The "Theorist of the week" although it needs expanding.
  - The "Informal statistics meetings"

- ... conceptual problems, mostly ... and manpower!
- > The (too widely defined) MC, Statistics Tools and PDF groups
  - Could by definition not live up to expectations raised with Alliance proposal.
  - Different approaches: Two activities (PDF group: ABM, HERA-PDF) versus loose collection of many projects (Statistics Tools group) versus "1 generator and some experiment connection / tuning activities" (MC group).
  - Not enough dedicated manpower to have more than very selective impact (1.5 FTE in total!). No Alliance-wide / global effect beyond what might have happened anyhow.
  - Take up only those project parts that promise success (list later)! Question of decentralisation from Heiko?

# My personal conclusion on the groups:

> Drop global / wide-spread / far-reaching claim, concentrate on few highprofile projects and staff and fund them well.

- ... conceptual problems, mostly ... and manpower!
- > The (too widely defined) MC, Statistics Tools and PDF groups
- > The requirement of "experiment-independence"
  - Most analysis activities and also tools developed from WITHIN experiments.
  - Anyhow: Most fellows "disappeared" in the experiments and did purely experimentspecific work ...

- ... conceptual problems, mostly ... and manpower!
- > The (too widely defined) MC, Statistics Tools and PDF groups
- The requirement of "experiment-independence"
- > The ALLIANCE fellowship programme (Analysis Centre point of view)
  - Mostly little orientation towards global Alliance goals / projects.
  - Need to better focus resources (Alliance fellows, DESY, universities) on well-defined Alliance projects.

# My personal conclusion on fellowships etc.

- If any funding available at all fund only activities / positions that connect AT LEAST two different institutes, have strong experimentindependent part and promise gain for whole community.
- Concentrate person power on few high-profile projects.
- Suggestion for DESY part: "Applied fellowships" a la FNAL LPC?

- ... conceptual problems, mostly ... and manpower!
- > The (too widely defined) MC, Statistics Tools and PDF groups
- The requirement of "experiment-independence"
- The Alliance fellowship programme (Analysis Centre point of view)
- > The leader of the Analysis Centre
  - Filling the proposal ideas with life is interesting and challenging physics / organisational / management task, requiring creativity and communication.
  - In future would like to organise regular conceptual and project discussions with community – identification of projects and manpower?
  - Wouldn't want to see the role of the Analysis Centre leader reduced to school organisation;-).

- ... conceptual problems, mostly ... and manpower!
- The (too widely defined) MC, Statistics Tools and PDF groups
- The requirement of "experiment-independence"
- The fellowship programme (from an Analysis Centre point of view)
- The leader of the Analysis Centre
- "What is an Alliance project?"
  - Original idea of numerous tools / packages / papers with "Alliance brandmark" very ambitious. Might work in selected topics.
  - More realistic: Analysis Centre as platform / meeting point / support centre for activities, like for example BSM fitting group.
  - Nevertheless: Long list of potential projects question of manpower (last slide). See also comment from Heiko.

## **FUTURE: "PROJECT AND WORKSHOP CENTRE"?**

- ... how to proceed?
- Continue schools and workshop, and carefully define their programmes, also with a view to the "global" situation (at CERN, at FNAL, ...)
- Fund and staff projects with high impact probability and (minimum) strong person-power commitments from two/three institutes.
  - Many ideas for projects around, will show a few on next (last!) slide.
  - Commitment to Alliance and its goals must mean something, especially in times with scarcer funding!
  - Question of hiring "high-profile" people, for example MC, as discussed in Frankfurt?
- Strengthen international connections
  - CERN and FNAL physics centres
  - Network of institutes with similar situations as DESY and D universities (Scandinavia? Poland? Eastern Europe? Russia? ... build on well-established DESY connections?)
- Turn towards physics / data interpretation (still LHC startup phase!)
  - Role of (ex) LHC-D working groups?
  - Strong recent impact of "BSM parameter fitting group"

#### POTENTIAL PROJECTS

... loose collection of ideas ...

- > PDF platform at DESY
- > MC network
- > CASCADE
- Data preservation project
- Data interpretation project / extended BSM fitting activities
- > LVMINI, APLCON, Fitting project
- Proffit and MC tuning
- > HERWIG++ node?
- QCDLab-PDF

- > Geant4 node
- Unfolding project
- QCDLab-MC generator
- MC theory development
- BAT, ROOSTATS, and other statistics / BSM fitting projects
- **>** . . .

- Select few, staff and fund them well.
- Support versus development?
- Postdocs versus established people?
- ..