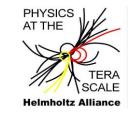
The Analysis Centre

In the Helmholtz Alliance "Physics at the Terascale"

Thomas Schoerner-Sadenius

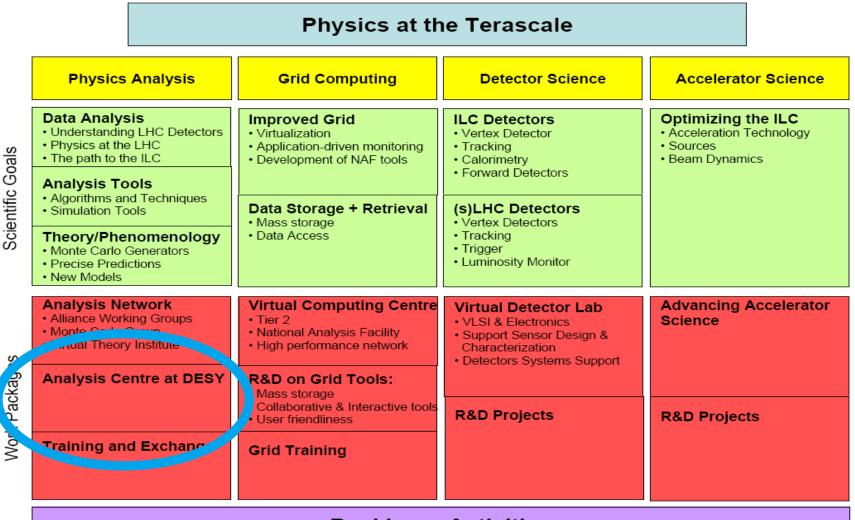
PoF Evaluation Meeting DESY, 26 February 2009







THE ALLIANCE "PHYSICS AT THE TERASCALE"



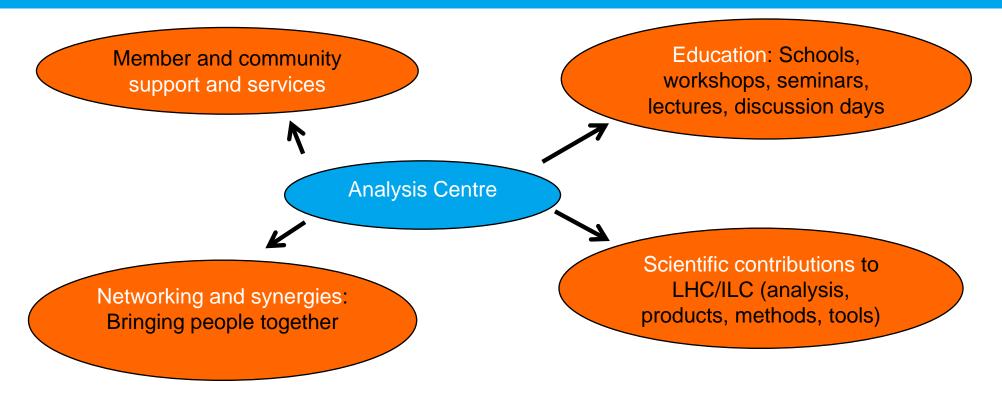
Backbone Activities

Management - Young Investigator Groups - Fellowships - Equal Opportunities - Outreach - Interim Professorships



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THE ANALYSIS CENTRE



Vision:

- > THE place for analysis-related issues in Germany!
- > THE place for coming together, discussing, working!
- > THE place for tools development (algorithms, methods, software, ...)!
- > Central DESY activity, parallel to other groups (ATLAS, CMS, ...).



ANALYSIS CENTRE: WORKING GROUPS

Three working groups focusing on issues of general relevance, building on DESY experience.

MC Generators:

- Theorists and Experimentalists working on all MC aspects.
- Programme: Systematic tuning of generators, parton shower, UE/MPI.
- Many individual + group projects ("Pheno days").
- Two DESY positions for group support.

PDFs:

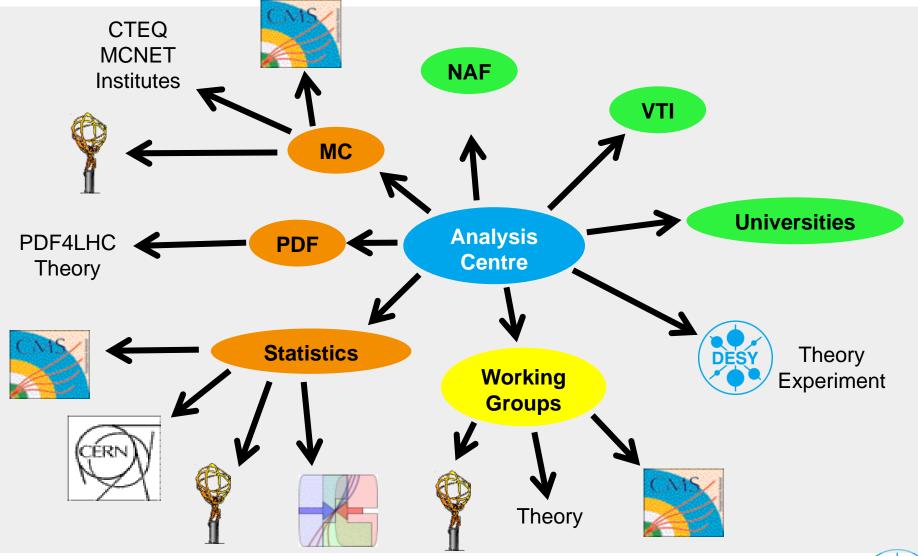
- General PDF support
- Development of opensource PDF ftools.
- Beginning of intensive collaboration theory
 H1/ZEUS.
- Theory of hard processes at LHC.
- Involvement in many contexts (PDF4LHC).

Statistics Tools:

- Development, implementation and support of statistics projects.
- Contacts to CERN / statistics committees.
- Open DESY position being filled.
- Statistics service for all analysers.
- Regular meetings, introductory schools, numerous ideas and projects.
- > Groups growing, attracting more non-DESY people \rightarrow core of centre.
- Strong participation of DESY staff essential!



ANALYSIS CENTRE: WELL CONNECTED





EDUCATION

> Organisation of schools and workshops seen as central task of the Analysis Centre. Successful start, many projects around:



- > Design of programme in close collaboration with universities.
- Soon: MC School, Fitting School, Detector Understanding with First Data, Scientific Computing, ...
- Experience: Schools and workshop fill a real gap; many (and many happy) participants!

DESY

ANALYSIS WORKING GROUPS

- > Concept: Focus on questions which can profit from cross-experiment efforts.
- Examples: Mtautau, jet veto in VBF, Higgs + heavy flavours, BSM parameters at LHC, ...
- > Some more ideas around.
- > New: "Knowledge Data Base"
 - Who is doing what where?
 - Starting point for newcomers;
 - seed for new working groups?



> Activities are starting – we have to feel our way. Close cooperation with experiment-specific activities important.



ANALYSIS CENTRE: FURTHER ACTIVITIES



Many more ideas for education events, expert workshops, issues to work on around. Challenge: Motivating people! Good chances for Analysis Centre to grow into central role!



THE ANALYSIS CENTRE: CHALLENGES

- > Analysis Centre has potential to be clear benefit to LHC and ILC analyses in Germany.
- It is a dynamic and constantly changing environment, with sometimes difficult boundary conditions, e.g.
 - -- experiment-specific vs. cross-experiment topics
 - -- information transfer between experiments
 - -- danger of doubling information, structure, and efforts.
 - -- time scale of Alliance
- > Analysis Centre has to show that a real added value is created for the physics groups – a challenge we hope to meet over the next few years.

