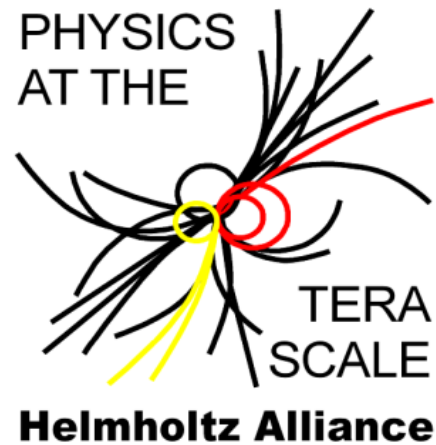


# Concluding remarks

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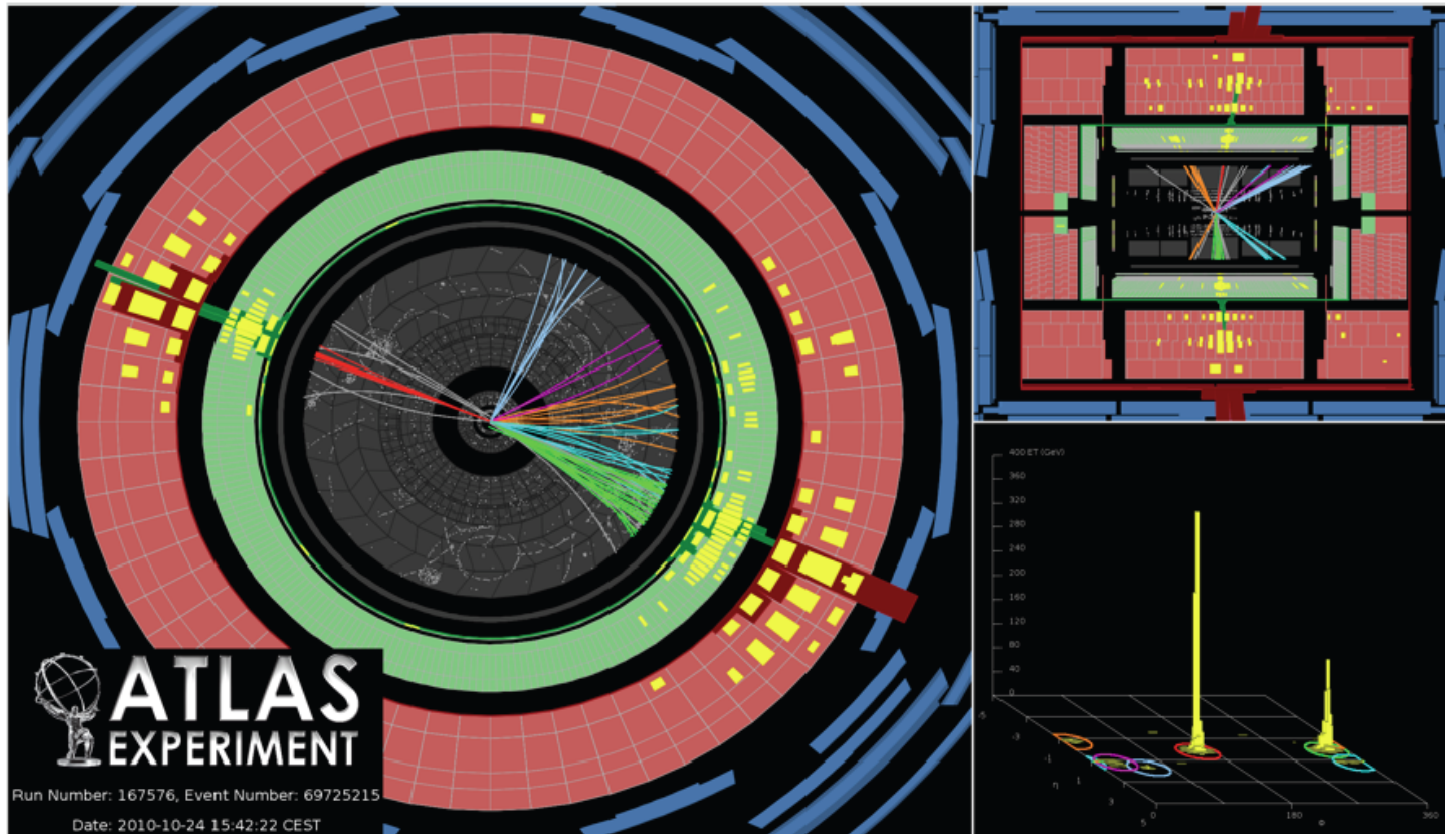
**4<sup>th</sup> Annual Workshop, Dresden 3.12.2010**

**Klaus Desch, Universität Bonn**

# Finally arrived at the Terascale!

## Highest $p_T$ jet event

$p_T$  jet1=1.3 TeV (also  
 $p_T$  jet2=1.2 TeV,  $m_{jj}$ =2.6 TeV)

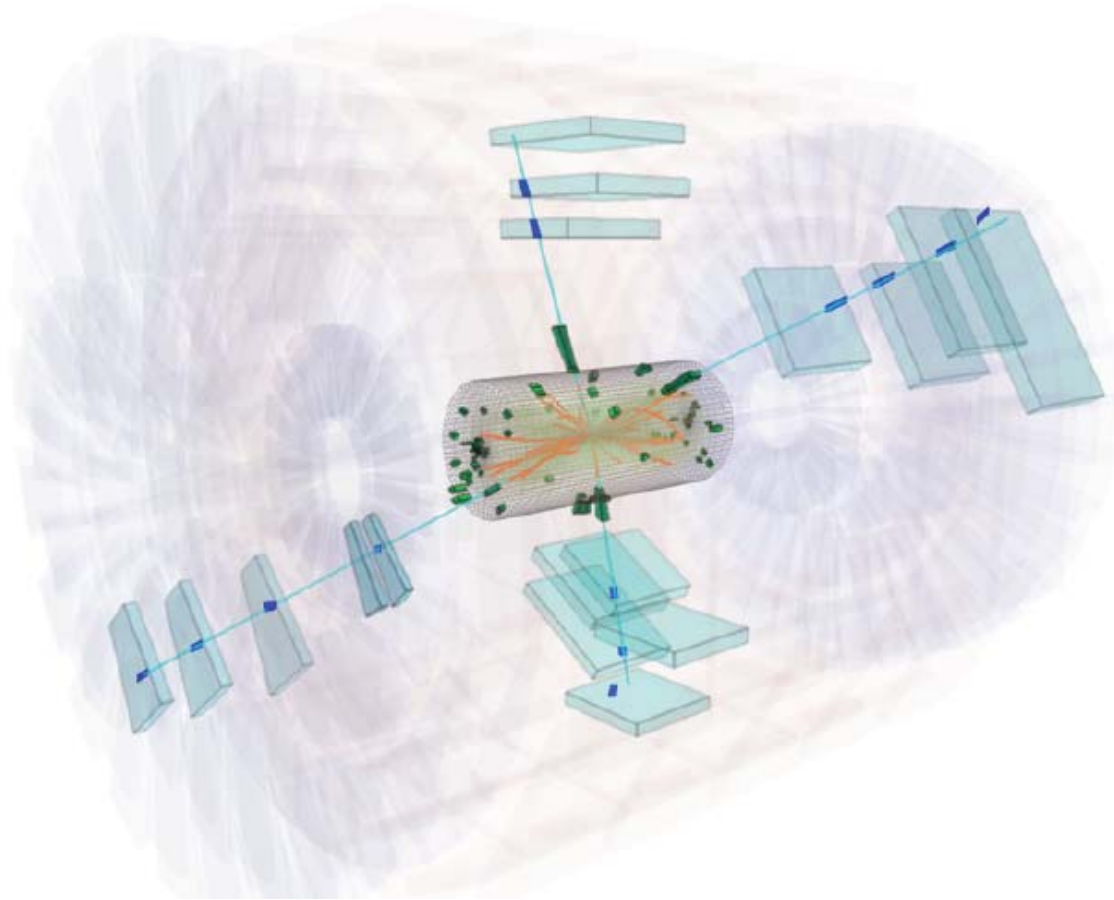


# Interesting Observations

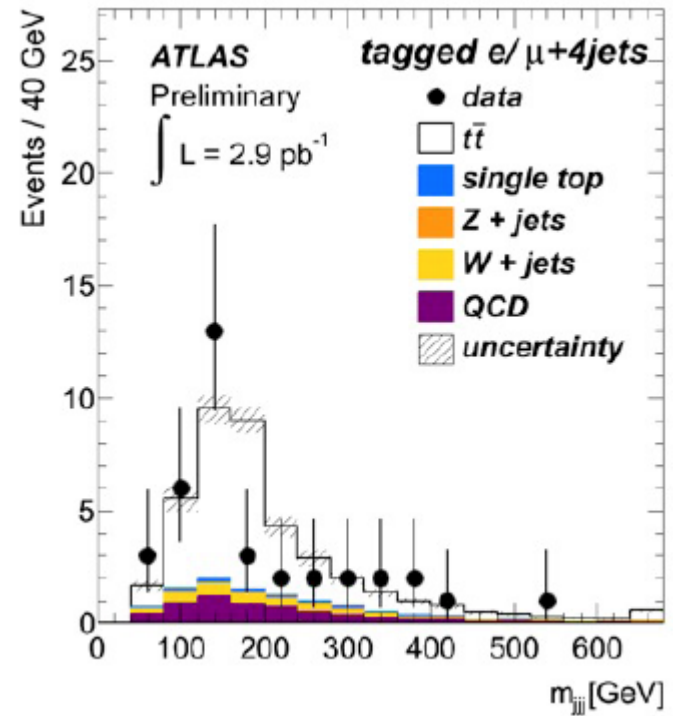
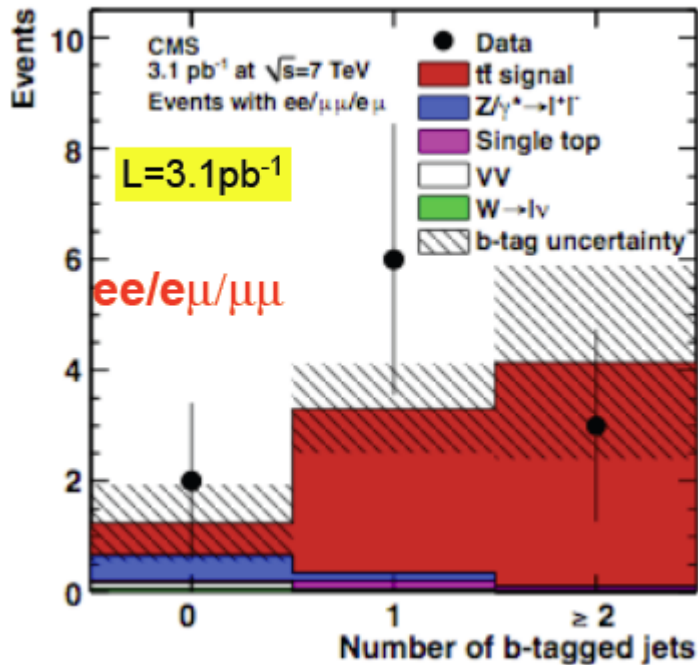
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## A beautiful ZZ event

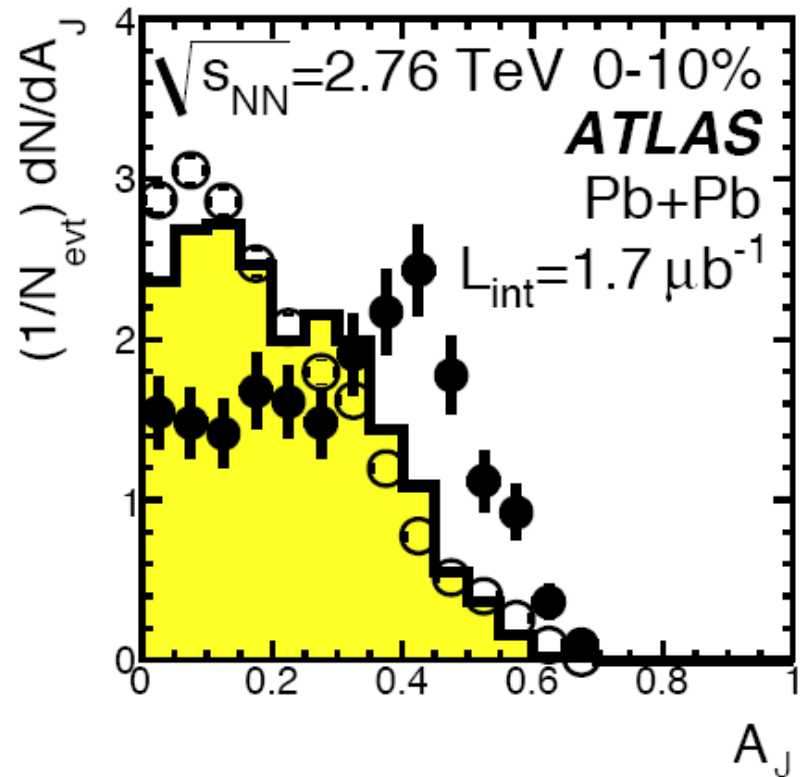
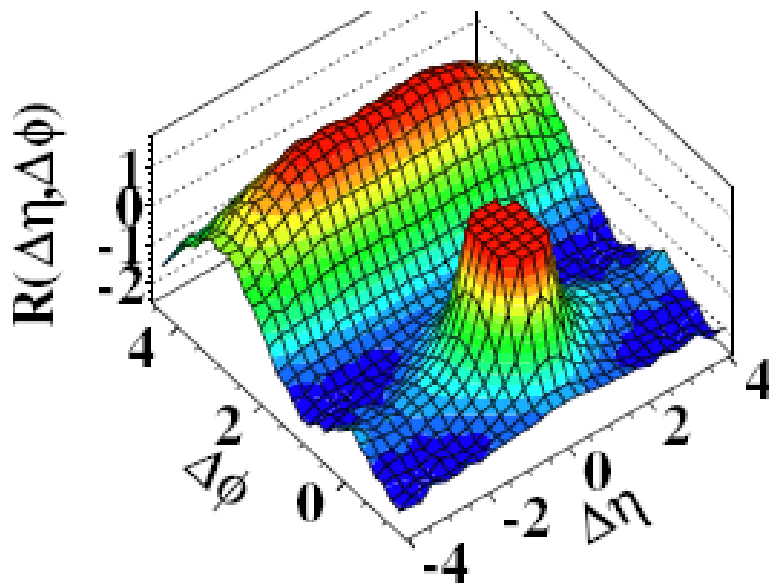


# Expected physics...



# Unexpected physics...

(d) CMS  $N \geq 110$ ,  $1.0 \text{ GeV}/c < p_T < 3.0 \text{ GeV}/c$



# LHC-D Working groups + LC forum

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- Interesting new ideas
- Dialogue of Theory and Experiments (and between experiments)
- Not a 2<sup>nd</sup> DPG meeting!
- Caveat: experiments rules on data (and MC!)  
could still be improved...
- LC forum useful to organize common projects  
(e.g. towards 2012 ILC TDR)

# The four RTs

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- **Analysis – Analysis centre + Analysis working groups**
  -
- **Detectors**  
Focus (this time) on LHC detector upgrades
- **Grid: is working!**  
Development projects
- **Accelerators**
  - new activity: plasma wakefield acceleration is getting momentum
  - SCRF
  - beam dynamics

**Alliance is in full swing!**

# The road ahead

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- Alliance until 06/2012 – harvesting starts
- Excellent midterm evaluation in 2009 → encouraged us to continue with the (Helmholtz + 17 Universities + MPI) enterprise
- Need preparations for a follow-up now
- Possible funding source: „Portfoliothemen“ (Helmholtz) complex process – we have to inject our theme into this process before there is a call for proposals
- We sent a „Antragsskizze“ based on our „Perspektivbericht“ (2009) to Helmholtz as an expression of interest
- Need **new** theme + **new** ideas for implementation!



# The road ahead

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- **Time line:**
  - **group leader meeting Jan 28**
  
  - **workshops of the 4 RT's in spring  
(detector, grid already scheduled)**
  
  - **proposal by late spring  
(time line for proposal submission not yet known – but we  
better be prepared)**

# Observation of dark matter by the alliance



# Danke!

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Tatjana Sereda  
Arno Straessner  
Dominik Stöckinger

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