

# Summay of the tau mini-workshop in Heidelberg







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ATLAS-DESY meeting, 18/04/2008





### Goals



Give you a short overview of the tau mini-workshop we had at the beginning of the week...

Give you an idea on what the German groups are doing, related to taus...

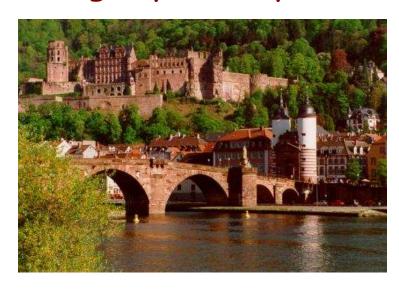
PS: Nothing too detailed here... If interested in the subject, please ask questions or check the related talks!



### Technical details (I)



Held in Heidelberg, April 14 (pm) -15 (all day) 2008



Followed the initiative started in Bonn last autumn

"informal workshop", goal is to encourage and ease collaboration between German groups working on taus



### Technical details (II)



~20 Participants from Heidelberg, Bonn, Dresden, Freiburg and DESY

- 7 people were representing DESY: Philip, David, Björn, Sebastian, Michael, Dörthe and myself
- Schedule and talks can be found there:

http://indico.cern.ch/conferenceDisplay.py?confld=32070

- → 11 talks (6 from DESY!)
- → Lots of time for discussion

#### Big Subjects:

- Tau Reconstruction and Identification
  - Physics Analyses With Taus
    - Coordination & Plans

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### Next slides:

What are people working on...
on are interested in...





### Heidelberg (recently involved)

- ·Separation of tau decay modes (see Michel Janus' talk)
- Interested in Z->tautau studies (collaboration with DESY foreseen)
- Interested in SUSY analyses with taus
- Interested in working on improving the track fitting in taus





#### Bonn (quite advanced analyses)

- ·Separation of tau decay modes (see Robindra Prabhu's talk)
- SUSY endpoint analysis
- · Tau polarization in SUSY decay chains (see Till Nattermann's talk)
- · RTT tests for the TauRec package





**Dresden** (Wolfgang Mader, one of the ATLAS tauWG conveners was present - very useful!)

- Higgs studies
- Background studies





#### Freiburg (core development, advanced analyses)

- Tau reconstruction and Identification (core development) (see Stan Lai's talk)
- · Higgs studies (see Susanne Kuehn's talk)
- AtlFast studies
- ·NN





### DESY-Hamburg (more and more advanced stuff!)

- Z-> tautau (see Sebastian's talk)
- Fake rate studies from dijet events
- Performance studies (see Björn's talk)
- Gamma conversions in taus (see Michael's talk)
- SUSY with taus (see Dörthe's talk)
- TauDPDMaker, Common ntuple production & FDR-1 studies (see David & Sylvie's talks)
- · Interested to collaborate with Freiburg for tau reco & ID



### Outcome (I)



- · Quite intense (short time, lots of stuff!)!
- Nice talks
- Useful discussions
- Came back on last workshop to-do list
- · Nice communication among the groups, very friendly





### Outcome (II)



#### ·Even found time for nice dinner & drinks!



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### Unexpected Outcome



Wisdom !!!

Will never (or at least try to) complain again about DESY Kantine!





#### **Future**



## Will meet again in Dresden for the ATLAS Tau Workshop

(not only German groups) May 14-16



14/14