

# The DESY-ATLAS group.



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# Group structure

- > DESY is split over 2 sites (Hamburg and Zeuthen)
- > Also the ATLAS group is split over both sites with an approximate ratio HH:Zn=3:1
- > The group currently consist of
  - 12 permanent+tenure track,
  - 23 postdocs,
  - 21 PhD students
  - plus master students, engineers etc.
- > The Zeuthen part closely collaborates with Humboldt university
- > There is some collaboration between the Hamburg part and Hamburg university
- > DESY also has a CMS group of similar size



We work on the following physics topics:

- Top quark measurements
- Searches for  $t\bar{t}$ -resonances
- MC tuning
- Gauge boson production measurements and PDF fits (see talk by Voica)
- Higgs searches in  $H \rightarrow \gamma\gamma$
- Supersymmetry with electrons, photons and  $\tau$ s (running out)

## > Trigger

- Trigger monitoring
- e/gamma signature coordination (T. Kono)
- e/gamma trigger performance studies

## > Computing

- Large Tier-2
- Fast shower simulation
- Smaller projects in core computing (DDM, PROC, MC production, Conditions DB)
- MC generator maintenance

# Technical topics (II)

## > SCT

- We are joining the present SCT to learn for the upgrade
- As a start we took responsibility for the offline monitoring system

## > Pixels

- Some involvements in running and IBL

## > Upgrade (see talk by M. Stanizki)

- **We want to build one endcap for the SCT**
- R&D for the SCT endcap
- Leading role in upgrade simulation



# Possible areas of collaboration with KEK

- The most obvious area is clearly the upgrade
- We certainly would profit from some collaboration on the SCT
- In physics gauge boson production seems the most obvious
- We should explore if there are other areas

