PXD DAQ Workshop June 9 and 10, 2011 Münzenberg (near Gießen)

Goals:

1. bring DAQ people and PXD people (frontend, DHH, ATCA,...) together

2. view of the "complete" system i.e. interfaces: timing distribution, trigger distribution, data formats, protocols, ...

http://panda.physik.uni-giessen.de:8080/indico/conferenceDisplay.py?confId=44

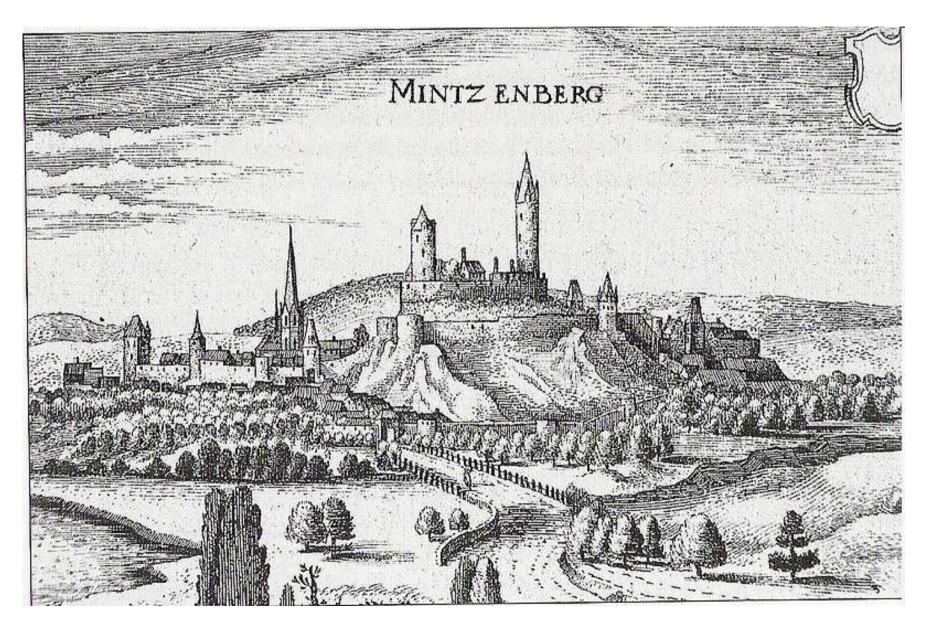


Burg Münzenberg http://de.wikipedia.org/wiki/Burg_Münzenberg http://www.burghotelmuenzenberg.de/

10111111

THEFT

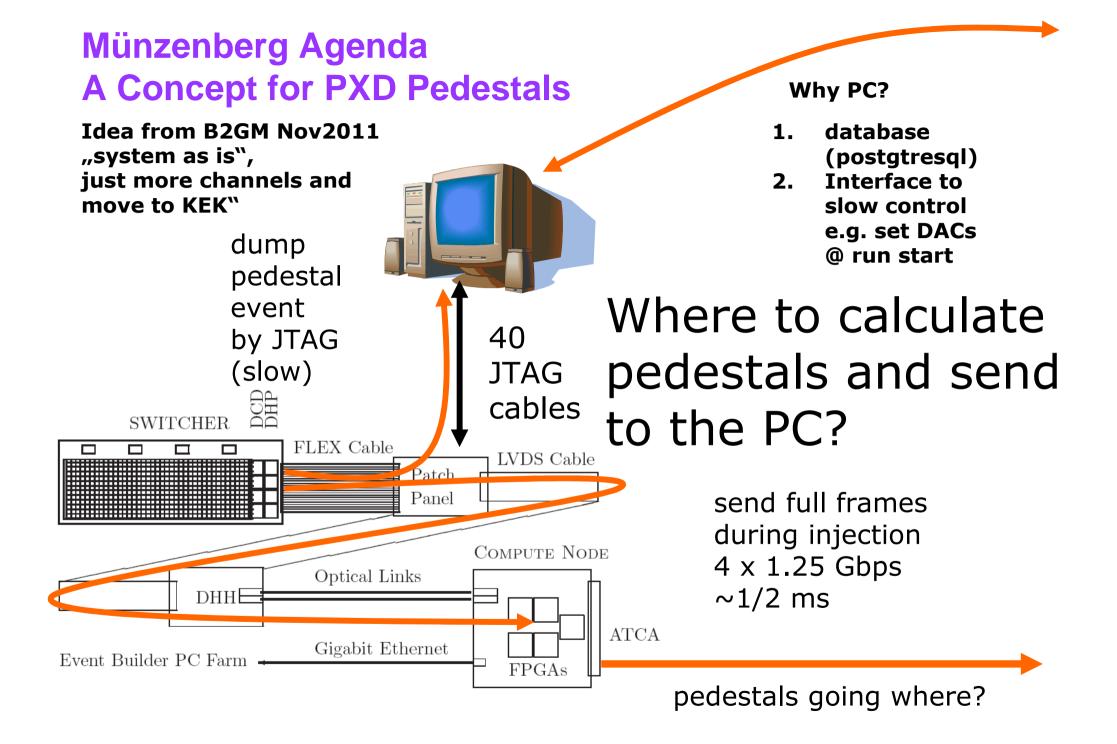
Mentioned in Documents since 1162. This drawing by Merian dated 1620.

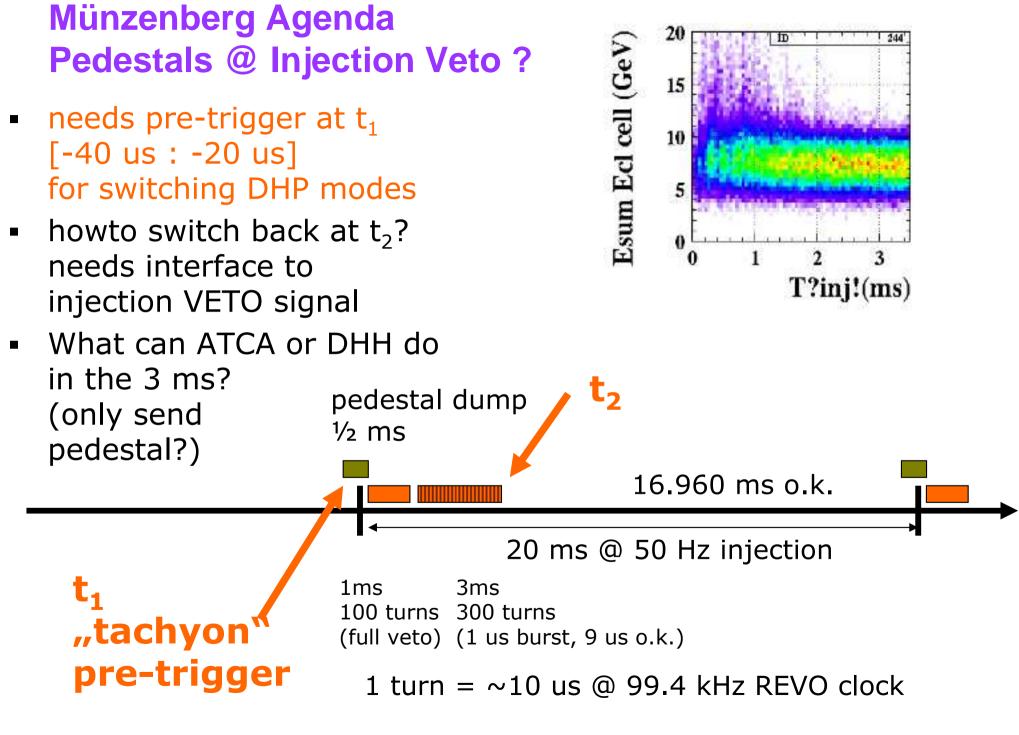


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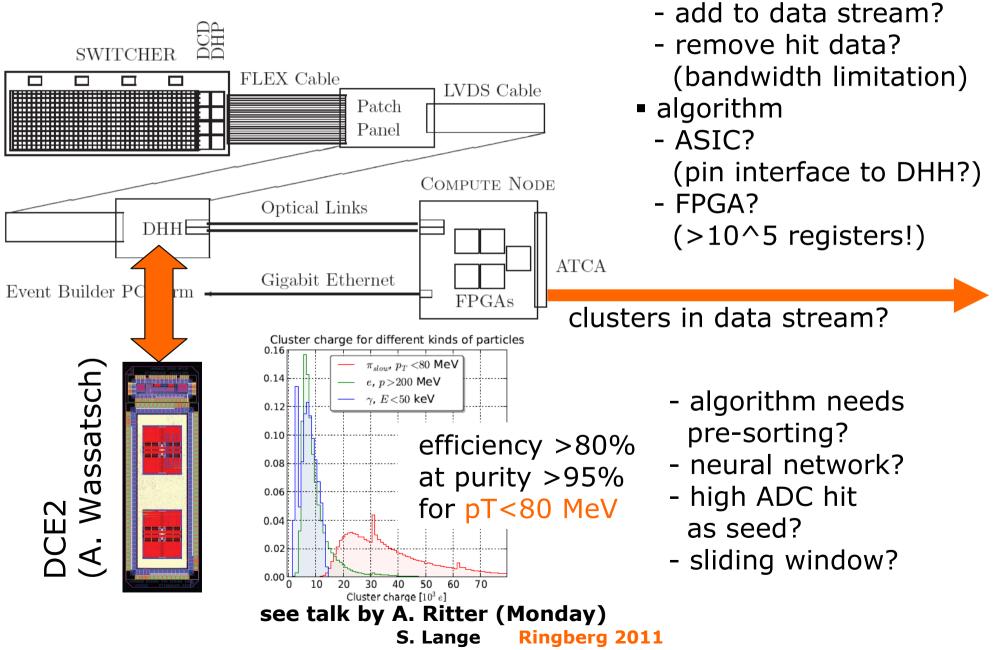
- DAQ issues
 - protocols (AURORA everywhere?)
 - clock generation and distribution (RF*(3/20), DHH?)
 - BUSY handshake?
 - pile-up, multiple triggers in 1 frame
 - run control (start/stop run, e.g. upload pedestals)
 - data formats (unpacking/decoding on FPGA)
- cluster finder for low pT (dedicated session)
- SVD interface
 - SVD sub-event builder, PXD sub-event builder
 - SVD tracklet finder algorithm (dedicated session)
 - SVD only or SVD+PXD
- FPGA sorting algorithms
 - hit sorting partially unsorted at DHH input (because of parallel FIFOs) order row-by-row required by any FPGA algorithm?
 - event sorting for sending PXD data to EVB
- load balancing (Touchek hot spots)
- injection veto
 - pre-trigger
 - pedestal dump?





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Münzenberg Agenda A Concept for Cluster Finder



cluster data

- all clusters?

- only high sum ADC?