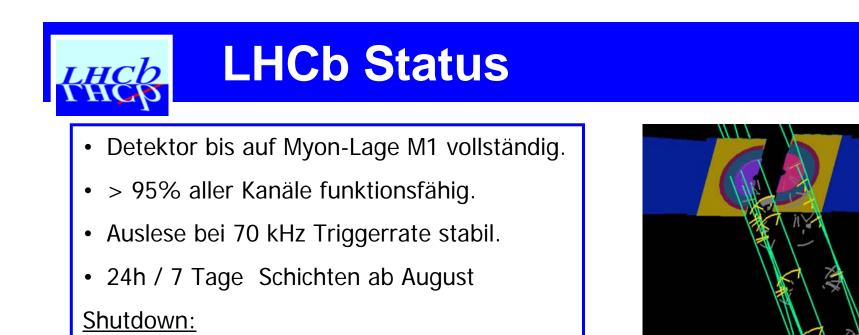
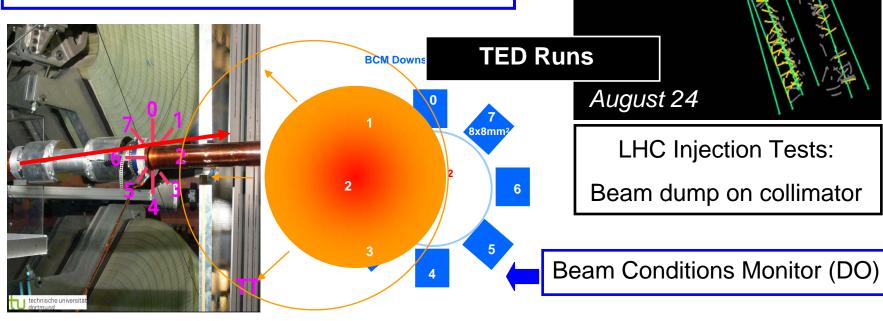


Deutsche Gruppen:

Uni Dortmund Uni Heidelberg MPI-K Heidelberg

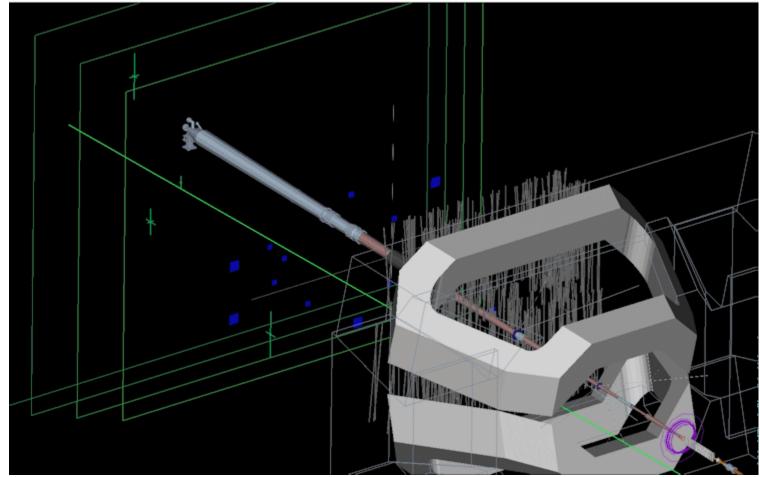


- Installation von M1
- Online Farm 400 CPUs \rightarrow 1600 CPUs





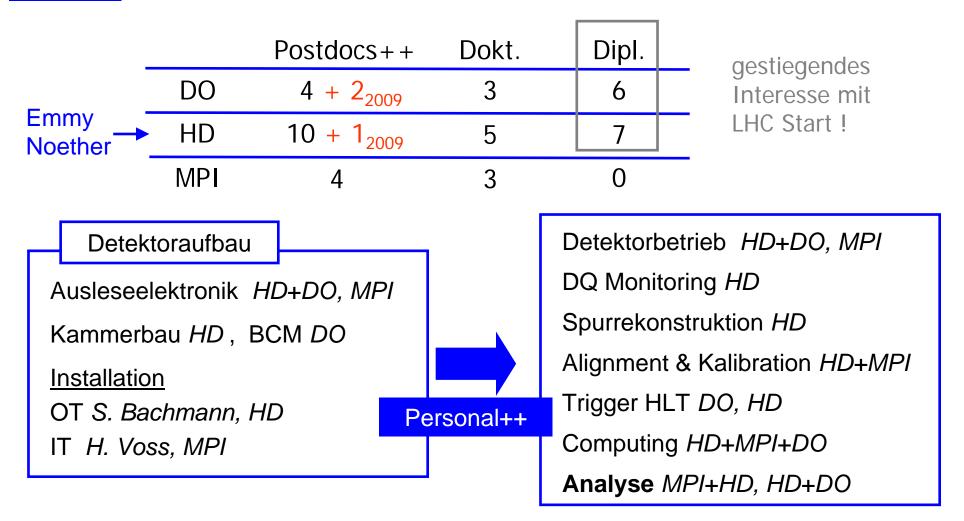
10.9.2008 11:32:26 +50ns



Algorithmus für Spurrekonstruktion: M. Schiller (HD)

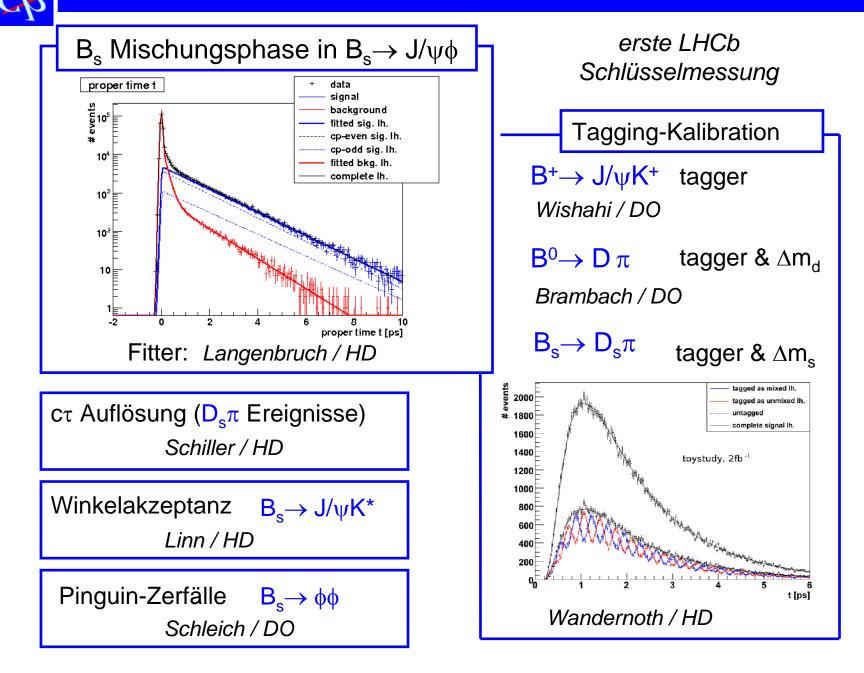


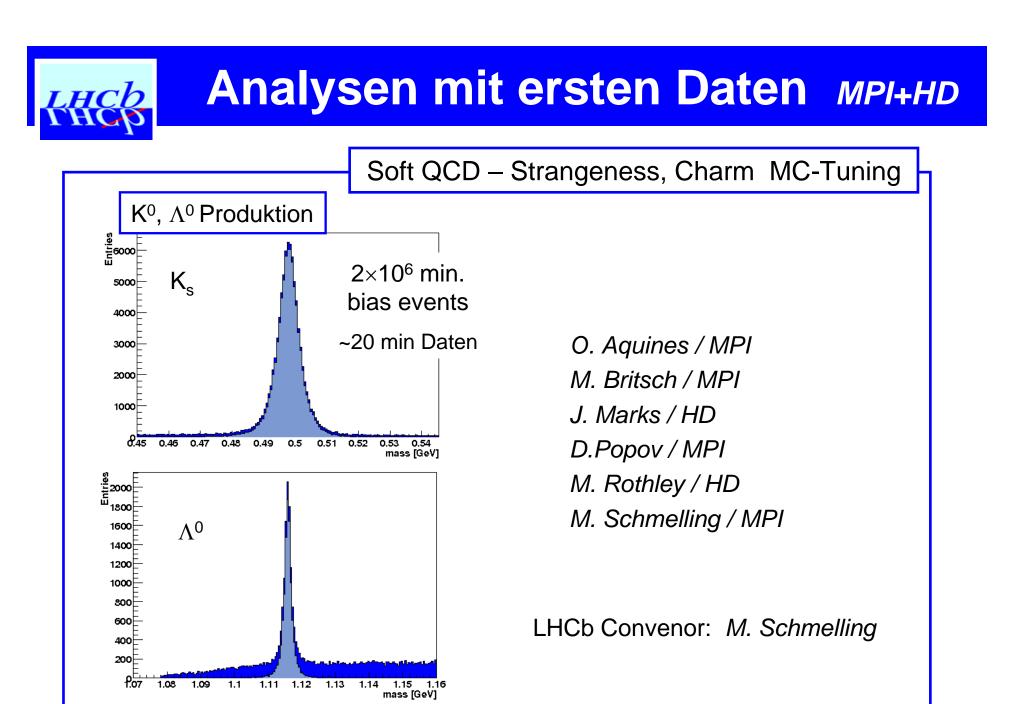
Deutsche Gruppen



Vernetzung: Gemeinsame Arbeitsthemen (+), Gemeinsame Meetings (wöchentl), Workshops: 2007, 2008 2009, LHCb-D + "befeundete B Theoretiker"

Gemeinsame Analysen HD+DO

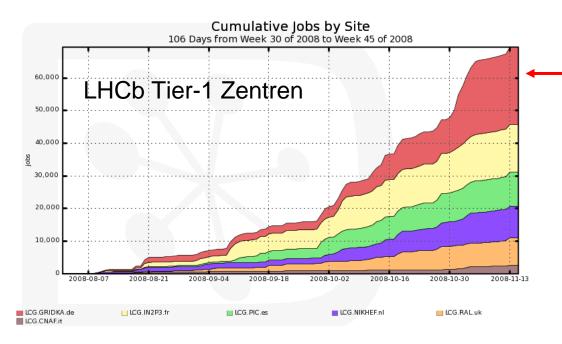




M. Rothley / HD



Computing



- GridKa

in 2008 sehr gute Performance für LHCb

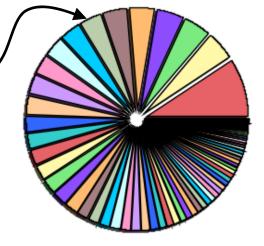
Jahr	CPU / kSl2k	Disk / TB	Tape / TB
2008	310	171	143
2009	812	460	512
2010	1123	542	977

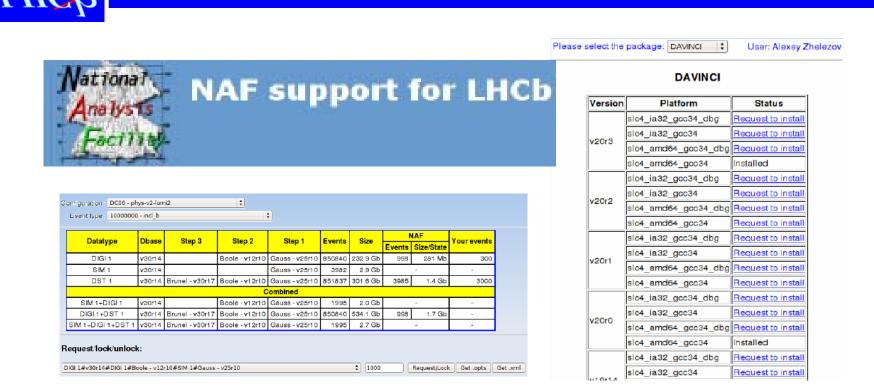
CPU days used by Site (Sum: 7447)

DESY LHCb Tier-2 online -

(seit Mitte des Jahres)

LHCb Monte Carlo Produktion (CPU Tage)





National Analysis Facility

- Interaktive / Batch Jobs
- LHCb Analyse Environment installiert
- Tools für Datenimport und automatische Software Installation
- Web-Portal zur Registrierung seit 20. Oktober: (11 registrierte User (aus allen 3 Gruppen))

A.Zhelezov / HD



LHCb Upgrade - 10 fb⁻¹++

LHCb Upgrade - Eol

- Run at 10× design luminosity: 2×10³³ (does not depend on LHC lumi)
- Needs detector and trigger upgrade:

40 MHz readout electronics

CERN/LHCC/2008-007

Physics

- CPV in B_s mixing (tree and penguins)
- CKM angle γ with ~1° precision
- Chiral structure of $b \rightarrow s$ decays
- Lepton flavor violation in $\tau \rightarrow \mu \mu \mu$

100 fb⁻¹

Interest of German Groups R&D Program

- 40 MHz readout electronics for silicon detectors *MPI*, tracking chambers *HD+DO*
- Fiber-Tracker DO

No commitments yet !