## **Belle II calibration**

### **Conclusions from recent test run**

- Regular calibration was done at BNL in the past
- Bit of a bumpy start of tests due to lack of information and 'data awareness'
- Needed to tweak the belle quota to get a satisfying throughput
- Smooth test run apart from a short downtime of DESY firewall
- More details about the physics: <u>BelleII\_AutomatedCalibration\_CHEP2021.pdf</u>





Atlas sched was clogged

# **Belle II calibration**

#### **Conclusions from recent test run**

- File staging still an issue and work in progress
- Will transform these jobs in a dedicated quotagroup with it's own color in the graphs etc. (done yesterday)
- Tweak the new quotagroup accordingly, aiming for ~ 1.500 cores in parallel (thus effecting only these calibration runs and not the overall Belle II quota)
- Expecting 2 to 3 calibration runs per year consuming ~100k cores x hour
- One 48 core host delivers ~ 420.000 core hours pa which is roughly 40% more than expected by BELLE for this
- First run was rather excessive in terms of processed data and core hours
- Expecting ~ 20k cores x hour for next run



## **Naf Ressource Status**

#### **General hardware**

- cluster has rather high occupancy
- needs additional hardware
- recent addition of 7 nodes (=7x48 = 336 cores )
- currently planning for an additional increase. Still waiting for quotes, current best guess is 6 nodes (=6x64 cores = 384 cores), maybe more
- will advocate for a more aggressive purchase plan this/next year

## **Naf Ressource Status**

#### **Storage DUST**

- - parts of DUST just went out of warranty
- - replacement hardware has arrived in the computing center, and will be installed in June
- the new storage will be a first step towards a more integrated IDAF (interdisciplinary data analysis facility)
- - GPFS system will serve
- -- the NAF: DUST project space
- -- Maxwell \$HOME & /software
- -- Maxwell project space
- - will make it possible in theory to use DUST from Maxwell cluster, and some Maxwell space from the NAF.
- - whether and how we do this in practice is up to investigation, and we will do this carefully and slowly.

### **Naf Ressource Status**

#### **Storage DUST**

- After all, NAF-DUST and MAXWELL-\$HOME are rather crucial for both clusters
- - Plan:
- -- Setup in June
- -- Migration of Maxwell-\$HOME and /software tentative early July (planned downtimes of accelerators)
- -- Mid/End July: Start DUST setup and migration process: We will copy the data under the hood
- -- We need one common downtime to unmount old DUST final sync mount new DUST -->
  Plan for one day of downtime somewhen in Summer (no date fixed yet)