

Combined Test Beam

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- The TB configuration will mimic that one for Phase 2
 - 2 PXD ladders
 - 4 SVD ladders
 - Belle II DAQ
- Final services, DAQ, monitoring, software....
- Solenoid field

GOAL: System related aspects and detector commissioning for Phase 2

- 2 weeks in April (?). 14th March is the first date available after 4.5 months
- AIDA-TA available on request

- Only used on a pre-experiment for beam energy calibration inside the PCMAG:
Momentum, field homogeneity
- No online data merging with VXD stream (BonnDAQ spying data)
- Offline event building with TLU trigger number

- Optimized DEPFETs and ASICs
- Full speed
- Gated mode (?)

- Full integration with Nakao-san timing system
- Scalability? High speed links operational for 4 modules at a time
- Exercise with two EMCs first?
- Clustering

- Online data quality monitoring on ONSSEN? EvB1?
- Pedestal calculation
- Cluster rescue mechanism from DHE?
- Cosmics: long cluster with no track associated
- ROI size optimization. Efficiency

- Track finder working and available to 'digest' noisy modules
- Ready to go with and without magnetic field
- Measure ROI efficiency and data reduction factor

- SVD will make use of the cartridge
- PXD should use the SCB
- Dummy beam pipe (?)
- CO₂ cooling (MARCO?)
- Thermal envelope
- Grounding
- Very same mechanics should be used to incorporate FANGS+CLAWS+PLUME

- PS
- Long cables (power and data)
- Interlock with cooling unit and monitors (?)
- Logger of voltages/currents. Time series

- Archiving / e-logging...

Thank you

