



DHH for Wrap Up session

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DEPFET Lab meeting

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Ringberg

February Test Beam and PERSY

- Four detector modules were read out via Optical Links, no problems associated with OL were observed
- DHH system is stable with known limitations
- Main issue : unstable HS links which are caused by GCK signal distortion

To Do

Hardware

- Commission final DH Carrier Card and DH RTM – Urgent !!!
- DHI prototype test and production of final modules
- Install IPMC in DHCC and MMC in DHC, DHE

Firmware

- Self recovery of DHC ⇔ ONSSEN Aurora Links – Done
- Redesign DHE component which receives DHPT data
 - accept only expected data by checking frame number and hit ID, reject all other
 - It will give stability and immunity against unstable links
- DHC : DHE data consistency check to exclude loss of synchronization
- DHC : employ B2TT reset signals:
 - B2TT FE reset => DHC Long Reset
 - B2TT Start of RUN reset => DHE and DHC reset (reset all memory buffers)
 - Current reset signals will be preserved
- Handling of Overlapping Triggers - 30kHz trigger rate