Summary of the most important statements from Onsen side (S. Lange)

1.) All so-called "Onsen problems" in the testbeam were traced and found, that they were not Onsen problems, but resulting from interfacing Onsen to other systems:

a.) Global run control ignored ERROR/ABORT from PXD run control (e.g. "Onsen link not up") and remained in permanent LOADING state

b.) Data corruption in the first event and following trigger mismatch in Onsen was traced to DHC reset not being performed in run control.

2.) After tests of hardware mass production 1 carrier board and 4 AMC cards are presently being shipped back to IHEP for repair.

Other hardware can be used for phase 2, cosmic data taking and phase 3. Onsen keeps the plan to ship full system to KEK in November.

3.) Potential other problems (backplane links, e.g. were suspected after "temperature instabilities") were also thorougly investigated and solved. Tests with 4 carrier boards ongoing. Will be extended to tests with 7 carrier boards in the next few weeks.

4.) Only large remaining firmware workpackage: cluster data format (not for phase 2, but for phase 3).

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In my mind, important discussion for the wrap-up session would be, how to use the remaining 6 weeks of PERSY:

1.) It would important to demonstrate, that there are no link instabilities anymore. Many runs in the testbeam are DHC-DHE mismatches, even with optical links. The question is, why (is patch panel the only reason?).

2.) Konno-san should implement the ABORT/ERROR handling, and then we should do some tests to verify that start of run works correctly.

3.) The SVD TTD is the most significant problems, as it always leads to downtime of several days.

4.) About final modules with final ASICs, I assume it is not probably going to happen for phase 2.