**Belle II PXD EVO Meeting**

22.6.2010

Present: L. Andricek, H-G Moser, O. Brovchenko, J. Ninkovich, M. Koch, S. Tanaka, S. Furletova, A. Wassatsch, C. Kiesling, Karlsruhe (H-J Simonis &...), Z. Dolezal, S. Lange, M. Ritter, A. Ritter, S. Lange, P. Fischer, J. Schieck,....



(http://indico.mppmu.mpg.de/indico/conferenceDisplay.py?confId=871)

1. **Agenda PXD Session B2GM, July 5**

The meeting will be on Monday, July 5, in the afternoon (we asked for 3h)

In addition there will be a joint IP, PXD SVD meeting (background, common mechanics and cooling) on Tuesday and a common DAQ meeting on Saturday, July 3.

Proposed agenda:

Christian Kiesling News, Announcments, Organisation (15’)

Yasui Arai SOI Progress (15’)

Pefi: ASIC status report (+ bump bonding) (30’)

Jelena: PXD6 status and DEPFET operation parameters (20 ‘)

Christian Koffmane: Parameter Model (15’)

Stefan Rummel: Power Supplies & Services(15’)

Laci Andricek: Ladder (15’)

Martin Ritter: Tests of thermal stress (15’)

Kolja Prothmann: Simulations (Performance optimisation) (15’)

Carlos Marinas Cooling (Simulations & Test structures) (15’)

(in random order still) (2h50’)

Pefi and Laci need to coordinate contributions on bump bonding studies, Pefi and Jelena on hybrids for ASIC tests.

In addition we should have a contribution on the DHH, either by Stefan Paul or included in Stefan Rummel’s presentation

1. **QED Background Runs at Belle (Christian Kiesling)**

Christian showed a few slides summarizing preliminary results from the background runs at Belle. He also mentioned that the originally very high background calculation by Superb (10 MHz/cm²) has been corrected and is now at 2.5MHz/cm² (still 4x higher than our calculation).

At Belle several experiments were made changing the luminosity but leaving the beam currents constant (e.g by widening the beam or separating the beams). This should change the QED (and other luminosity related backgrounds) but leave the beam related background (beam gas,..) constant. Backgrounds were monitored looking at SVD multiplicity, CDC currents and a pin-diode. Indeed the backgrounds change and an upper limit on QED background can be derived, compatible with the 2.5 MHz/cm² but incompatible with the 10 MHz/cm². Unfortunately the analysis is not that easy, since the simple model that other backgrounds don’t change does not hold. More corrections are needed, more at the B2GM.

Shuji added that the synchrotron radiation simulation has been repeated going beyond 5 sigma. Now direct hits occur. More information is needed, but it still seems to be a negligible rate.

1. **AOB**

TDR: we received a draft with the reviewer’s comments, which are very friendly and encouraging. The final version of the TDR is scheduled for next week, it is needed for US funding agencies and ECFA.

Action list: the list has not been updated since Ringberg. HGM will do that. He asks all WP leaders to look in the list and give feedback on actions concering their WP

Shuji surprised us with the announcement (apparently fresh) that the Japanese Ministry MEXT approved 100 oku yen for the superKEKB upgrade.

Congratulations

Next meeting: July 13, 10:00