**Belle II PXD EVO Meeting**

14.9.2011

Present:

 Guillermo Timón; Jelena Ninkovic; Hans Krueger; Arantza Oyanguren; Bartlomiej Kisielewski; Michael Schnell; Christian Koffmane; Christian Kiesling; Carlos Lacasta; Igor Konorov; Andreas Moll; Stefan Rummel; Shuji Tanaka; Jochen Knopf; Andreas Seiler; Martin Ritter; Marcel André Vos; David Münchow; Zdenek Dolezal; Christian Kiesling; Peter Kodys; David Münchow; Hans-Günther Moser, Rainer Richter

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| **Wednesday 14 September 2011** | [toptop](http://indico.mppmu.mpg.de/indico/conferenceDisplay.py?confId=1376#top)  |

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| 10:00 | Summary of Meetings on Slow Control and Mock Up (20') ([files Slides](http://indico.mppmu.mpg.de/indico/materialDisplay.py?contribId=1&materialId=slides&confId=1376) pdf file  )  | Christian Kiesling |

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| 10:20 | Connection HLT -> PXD (20') ([files Slides](http://indico.mppmu.mpg.de/indico/materialDisplay.py?contribId=0&materialId=slides&confId=1376) ppt file  )  | Higuchi-san |

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| 10:40 | Agenda Bad Dürckheim (20')  | Session organizers |

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| 11:00 | AOB (20')  |  |

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(http://indico.mppmu.mpg.de/indico/conferenceDisplay.py?confId=1376)

1. **Meeting on Slow Control and Muck up (C. Kiesling)**

On 7.9.2011 there was a meeting at CERN on slow control, including visits and discussion of ATLAS and LHCb slow control systems:

Conclusions are:Belle II Slow Control System needs to be established from scratch.Using the commercial PVSS system seems a very economical solution.

Next Steps:

- MPI enquires about the cost of the system if used at KEK

- TUM will contact PVSS representatives: technical questions like interfaces, scalability and performance.

- For the coming B2GM at KEK it is planned to invite a presentation on

PVSS & SMI++ by a slow control expert from an LHC experiment.

- Representatives of TUM will join the B2GM, inquire about possible

interests of KEK to get assistance in the Belle II slow control by TUM.

- If encouraged by Belle II, TUM will engage itself in the Belle II Slow

Control Project and take the necessary steps to procure funding

through the German BMBF for the manpower to start the software

development.

A meeting on Mock ups was organized on 8.9.2011 at MPP (MPP, Krakow, DESY, Valencia, Vienna, KEK). We agreed that we need two mock ups for PXD and SVD: one for cooling studies and one for studies of assembly and integration. DESY as a new group has a strong interest to contribute. A preliminary task list and work plan was discussed.

A meeting on the CO2 cooling plant was organized on 13.9.2011 at CERN. Status and schedule of the MARCO construction are:

* ordering of all parts for MARCO done
* frame done at CERN by MPI technician
* first parts from Swagelok have arrived
* design of MARCO being finalized (K. Ackermann)
* frame to be equipped by all parts except pipes by end of October
* Piping job done at MPI (new orbital welding eqipment)
* pressure / leakage tests finished by November 2011
* Transport to CERN for installation of controls
* Electronic control system (PLC + PVSS) being ordered through CERN
* Electrical installation supported by technician from MPI
* Commissioning starts in April 2012
* MARCO ready for transport to MPI by end of June

Christian told us that a new schedule for the Belle II commissioning has been made. PXD delivery in now in August 2015 with integration and installation afterwards. The first Physics run will be early 2016. Now the KEKB commissioning run with BEAST II will be with QCS and magnet, so that realistic background can be monitored and tuned.

1. **Connection HLT -> PXD (Higuchi-san)**

Higuchi-san presented the information and data format of the ROIs sent from the HLT to the PXD (ATCA). We agreed that the ROI is dynamic in size (depending on the track error) and rectangular (no funny shape). The full covariance matrix should be transmitted.

1. **Agenda Bad Dürckheim**

We finalized the sessions of the workshop. Conveners are to organize the talks. The agenda can be found at:

http://indico.mppmu.mpg.de/indico/conferenceDisplay.py?confId=1319

1. **AOB**

* Next meeting: October 4 (Tuesday) 10:00

http://indico.mppmu.mpg.de/indico/conferenceDisplay.py?confId=1379