

PXD EVO Meeting 22. Sep. 09

C. Kiesling

News on Funding of SuperKEKB

New Tracking Task Force

Visit to Optigraph Comp

Action List

News on Funding for SuperKEKB

Email by M. Yamauchi (Sept. 4):

- KEK had applied for a new (stimulus) fund
„Most Advanced Research and Development“

(MEXT had urged KEK to apply for partial support for SuperKEKB)

- Unfortunately, request for SuperKEKB „startup“ money was denied
(funding mostly for applied sciences)
- Bit disappointing that funding of SuperKEKB cannot be announced
already at this time
- Now back to original plan to get the funding from MEXT
decision by the end of this (fiscal) year


Tracking Task Force

HEPHY

Institut für Hochenergiephysik

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Belle Tracking Meeting

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Belle tracking meeting, September 14-15, 2009, Vienna

The purpose of this meeting is to discuss the possibilities for a new tracking code for Belle-II, emphasizing the low energy tracking ("SVD-only").

The meeting will take place in the morning and early afternoon of **Tuesday, September 15, 2009**. So, the arrival day should be Monday for most of you. The detailed timetable is available [here](#). Venue is the [Institute of High Energy Physics, Library \(1st floor\)](#).

If you would like to participate in this meeting please register [here](#) until **Monday, September 7, 2009**.

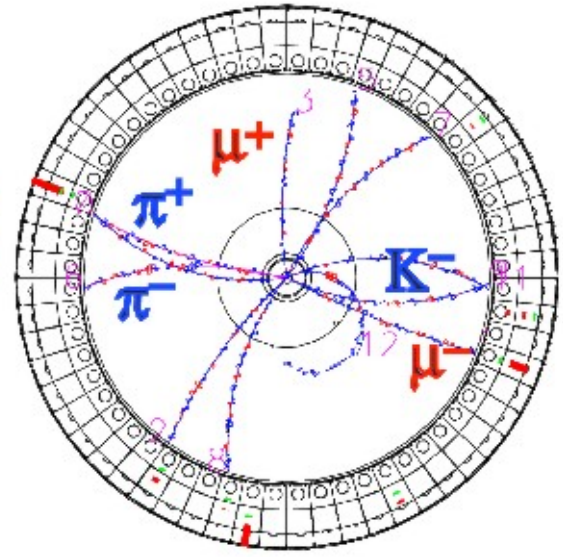
Besides timetable and registration, this homepage contains practical information regarding the meeting. If you have any further question/request please contact the [local organizer](#).

With best regards,

Christoph Schwanda.

Organizer

- Christian Kiesling (cmk@mpp.mpg.de)
- Christoph Schwanda (schwanda@hephy.oeaw.ac.at)



Aim: New tracking code for Belle(-II) (in C++) for PXD, SVD, CDC

Tracking Task Force (cont.)

List of participants


Böhmer	Felix	Technical Univ. Munich	
Drasal	Zbynek	Charles Univ. Prague	
Dolezal	Zdenek	Charles Univ. Prague	(via EVO)
Frühwirth	Rudolf	HEPHY Vienna	
Gerassimov	Sergei	CERN	
Heck	Martin	Karlsruhe Univ.	
Höppner	Christian	Technical Univ. Munich	
Kiesling	Christian	MPI of Physics Munich	
Kodys	Peter	Charles Univ. Prague	
Kuhr	Thomas	Karlsruhe Univ.	
Kvasnicka	Peter	Charles Univ. Prague	
Mitaroff	Winfried	HEPHY Vienna	
Moll	Andreas	MPI of Physics Munich	
Neubert	Sebastian	Technical Univ. Munich	
Prothmann	Kolja	MPI of Physics Munich	
Schwanda	Christoph	HEPHY Vienna	
Tsuboyama	Toru	KEK	(via EVO)

Teams:

Vienna,
Prag,
Karlsruhe,
MPI,
Japanese contact
for CDC needed

Advisory status
Techn. Univ.
Munich

Tracking Task Force (cont.)

 **Vienna tracking meeting**

Tuesday 15 September 2009
from 09:00 to 16:30
Europe/Vienna
at HEPHY Vienna
chaired by: *Christoph Schwanda (HEPHY Vienna)*

Description: The purpose of this meeting is to discuss the possibilities for a new tracking code for Belle-II, emphasizing the low energy tracking ("SVD-only").

Tuesday 15 September 2009 | [top↑](#)

Tuesday 15 September 2009

09:00->12:00 **Morning session**

09:00	Welcome (05')	Christoph Schwanda (HEPHY Vienna)
09:05	The Need for New Tracking at Belle(-II) (25') Slides	Christian Kiesling (MPI of Physics Munich)
09:30	The Vienna algorithms and software group (25') Slides	Rudi Frühwirth (HEPHY Vienna)
09:55	Recent work for ILD software and Belle II PXD at Prague (15') Slides	Zbynek Drasal (Charles Univ. Prague)
10:10	Track fitting in DEPFET testbeam data (10') Slides	Peter Kvasnicka (Charles Univ. Prague)
10:20	coffee break (15')	
10:35	Tracking at Karlsruhe (25') Slides	Martin Heck (Karlsruhe Univ.)
11:00	Fast Hough Transform for Helix Track Finding (15') Slides	Sebastian Neubert (Techn. Univ. Munich)
11:15	Track Finding on a GPU (15') Slides	Felix Böhmer (Techn. Univ. Munich)
11:30	GENFIT: A Generic Tracking Framework for Complex Detector Systems (30') Slides	Christian Höppner (Techn. Univ. Munich)

13:30->16:30 **Afternoon session**

13:30	Discussion on group organization (3h00') Minutes	
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Results: Group is formed, chaired by Martin Heck (Karlsruhe)
regular meetings on Tuesdays (first meeting on Oct. 13, 2009)

<http://kds.kek.jp/conferenceOtherViews.py?view=standard&confId=3742>

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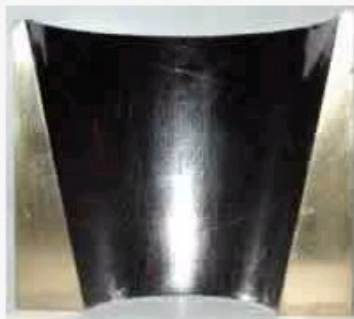
<http://www.optigraph.fta-berlin.de/>

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H.-G. Moser, T. Müller, C.K.

Visit at Optigraph (Adlershof, Berlin)
on Sep. 17, 2009

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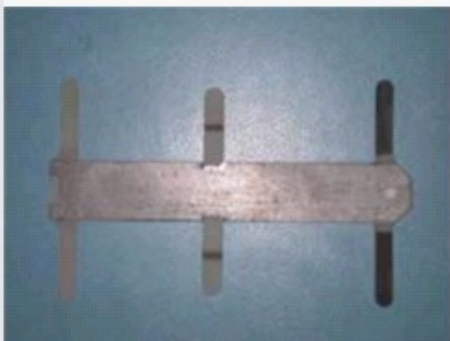


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(Ref.31)

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Action List

Proposed Actions

- Switcher LVDS voltages; can this be changed to 1.8V: Ivan Peric, Hans Krüger (Submission 2.11.09 ?)
- Reliability of gold-solder bumps: Christian Kreidl
- DCD size and footprint, consequences for DHP: sort this out between Pefi, Ivan Peric, Hans Krüger, Christian, Rainer Richter
For PXD 6 the footprint has to be known till end of 2009.
Next UMC submission: (180nm miniasic: 28.9. or 30.11.)
-  ▪ EOS Geometry: Forward information to mechanics and IP groups (Hans Krüger, Frank Simon, Hans-Günther Moser).
- Current ratings in Hans-Krüger's list: check and update (Hans Krüger, Ivan Peric, Rainer Richter).
-  ▪ Parameter List for cooling studies: Carlos Marinas.
-  ▪ Organisation of work on Cooling: Carlos Marinas, Hans-Jürgen Simonis, Frank Simon.+.....

Action List (cont.)



- Task list for (physics) simulations (different geometries). From mechanics/cooling WG



- Contact Inna Grigorieva because of TPG: Hans-Jürgen Simonis, Stefan Heindl, Hans-Günther Moser.

- Specifications for the DHH

- Preparation: Belle-II note until end of October
(machine design finalized)

→ collection of existing papers/documents on the DEPFET
+ preliminary simulation results (single tracks)