

PXD EVO Meeting

C. Kiesling

Event Data Size PXD -> T. Hara

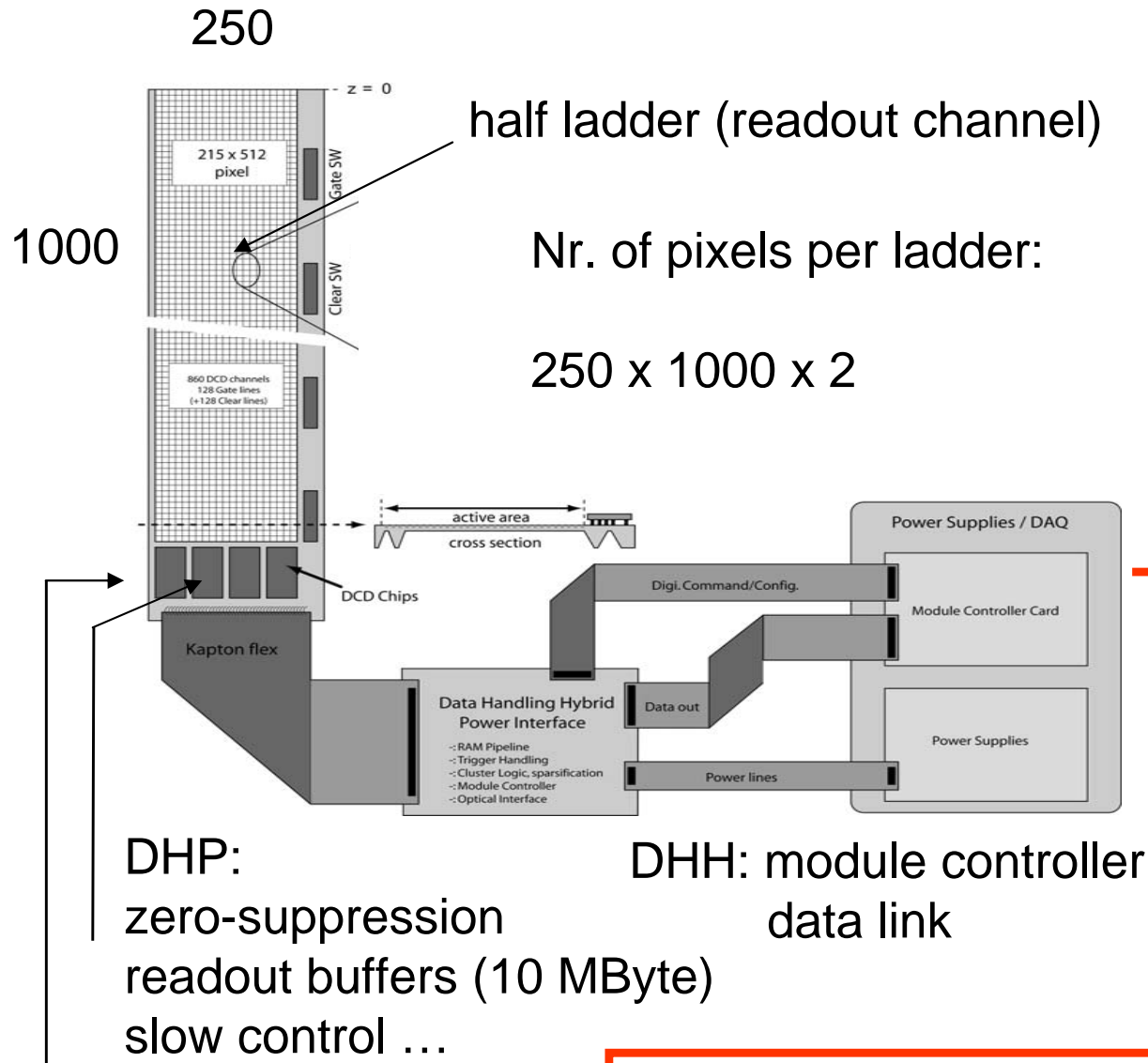
Some News from KEK

PXD Calendar

Workpackages

Event Size Estimate for the PXD

Update: Nano beam option



- 40 half ladders:
10 Million pixels (px)
- 1-2% occupancy (?)
- 200 kpx on at any time
- 2×10^5 px in each event
- 4 bytes per px (pos + ADC)
- 800 kB/event

Total evt size: ~ 1 MByte

Data Compression (clustering):

→ 1/2

Liaison to KEK („Integration Coordinator“):

Peter Krizan, Spokesman of the Belle-II Collaboration

was asked during the last Belle-II meeting at KEK to help finding a contact person at KEK for the PXD Collaboration („Liaison to KEK“)

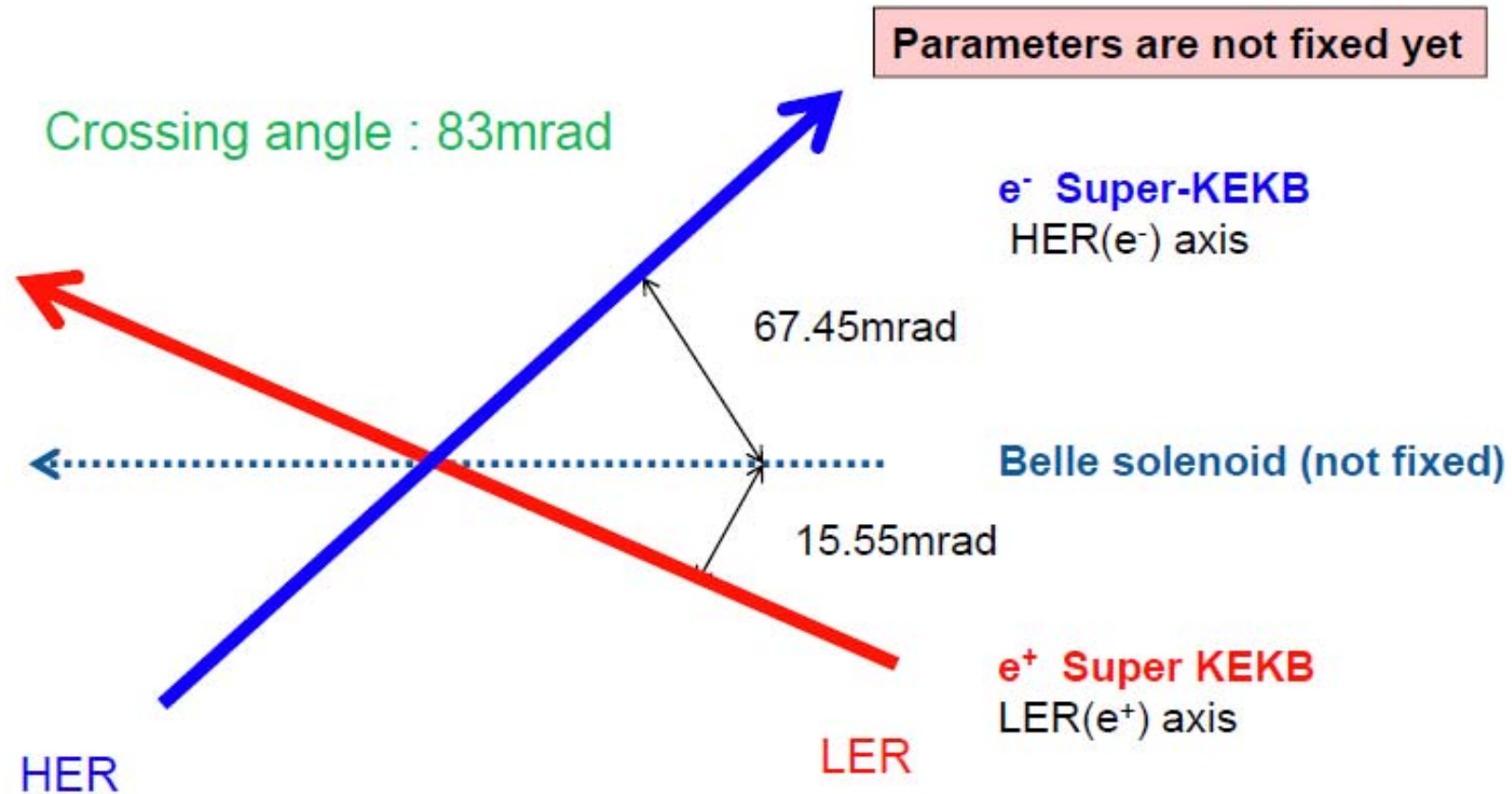
Masako Iwasaki (Univ. of Tokyo), Leader of the IR working group

has indicated interest to serve as liaison to the DEPFET PXD Collaboration

detailed discussion during the coming KEK meeting (Nov. 09) planned together with PL and TC

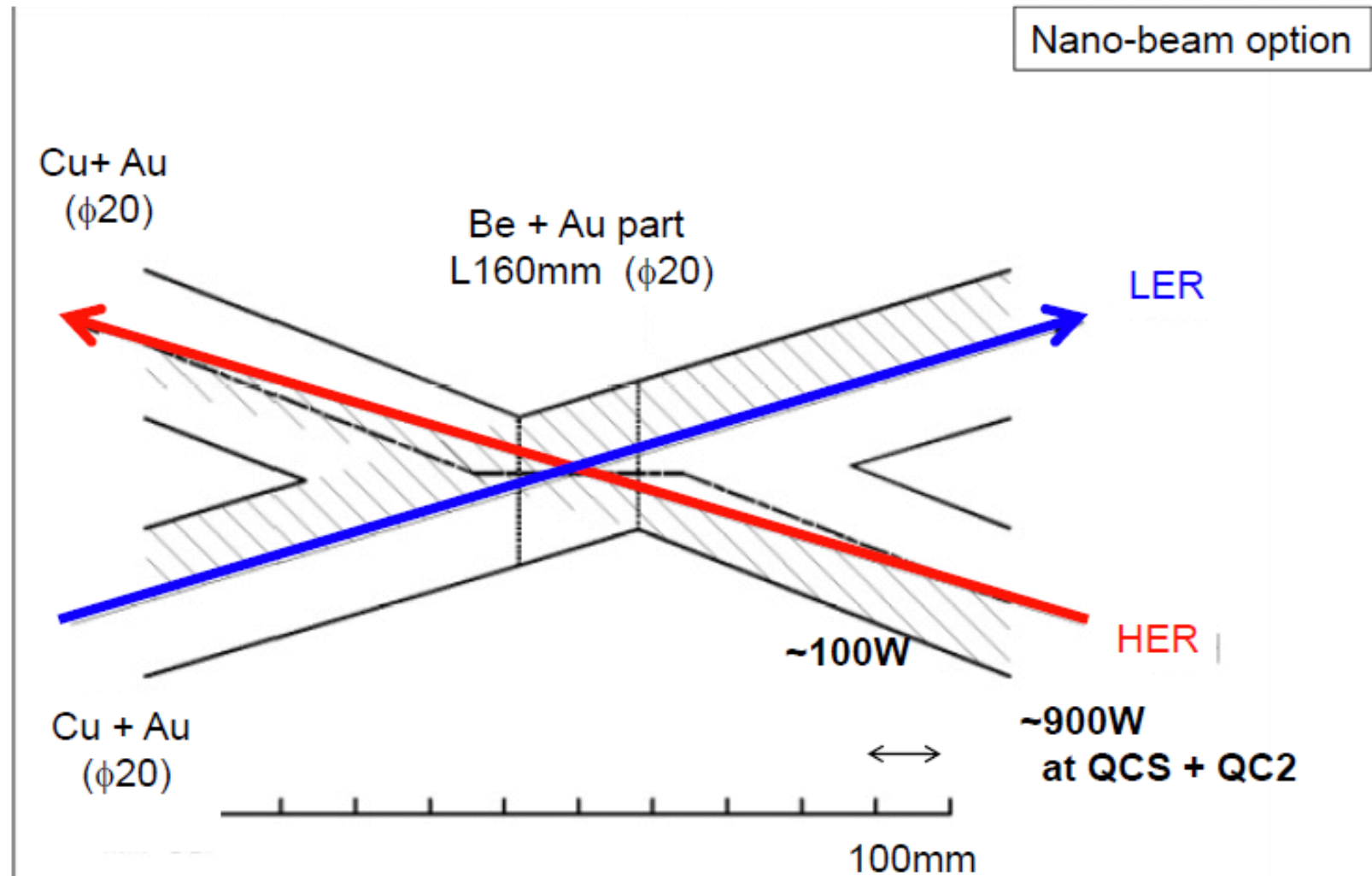
During past week: exchange of information between Masako and PL/TC concerning needs of PXD and requirements of the machine/IR

Relationship between Belle-II and Super-KEKB: Nano-beam



Beam pipe : parallel to HER? Belle solenoid? Or??

E deposit to the beam pipe

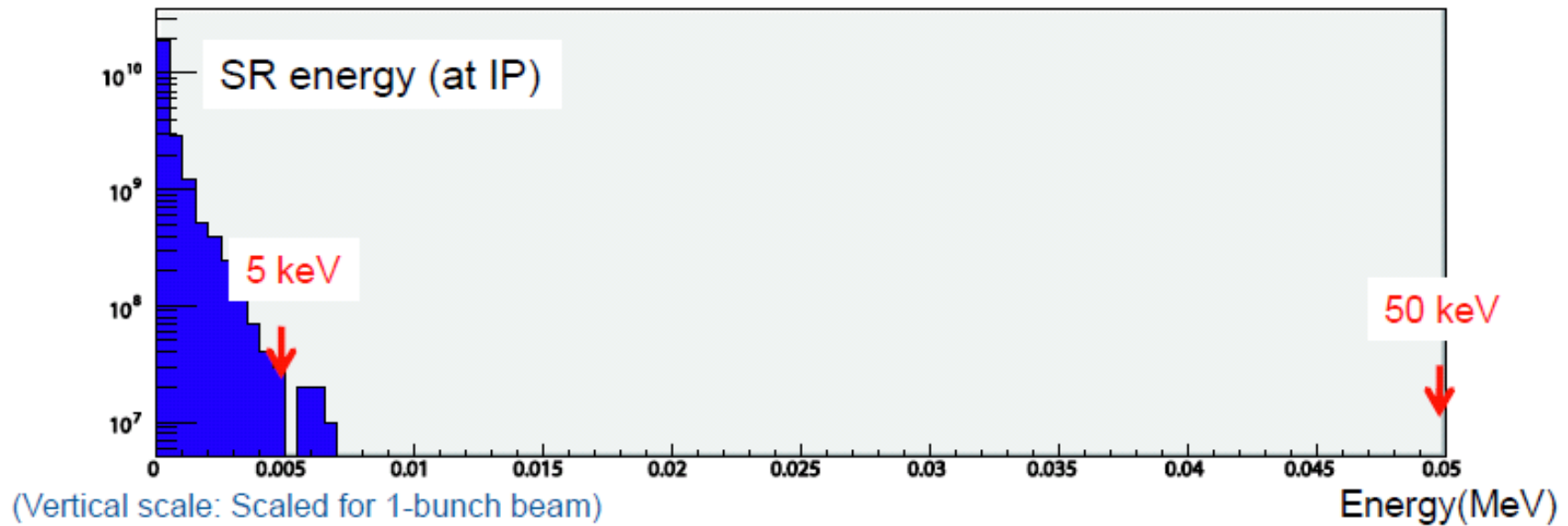
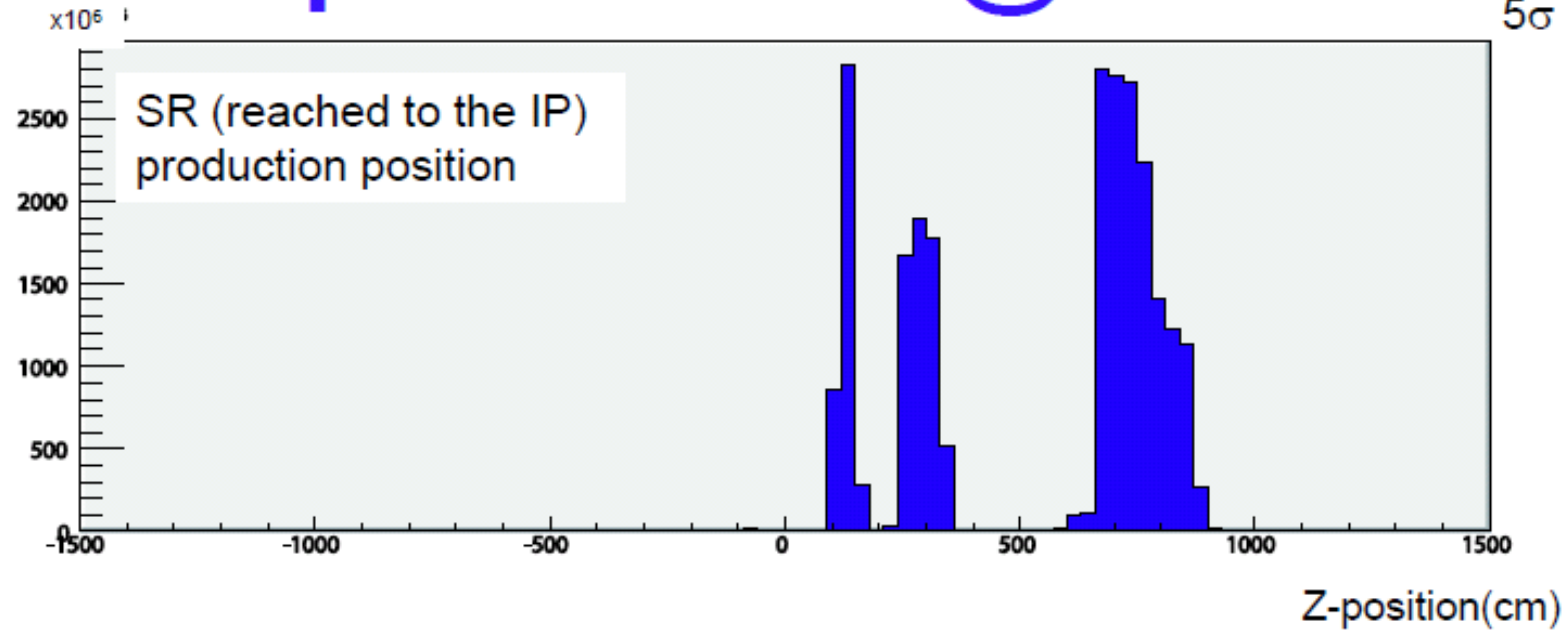


Preliminary
E deposit strongly depends on the beam-pipe geometry

HER upstream SR @IP

Nano-beam option

5 σ beam



Important Dates

General DEPFET PXD Meeting (Barcelona): Wed.-Thu, October 7-8, 2009
(pre-KEK Meeting)

KEK Meetings (B2GM): Nov. Meeting: Wed-Fri, November 18-20, 2009

March Meeting: Wed-Fri, March 31-April 2, 2010

July Meeting: Mon-Wed, July 5-7, 2010

General DEPFET PXD Meeting (Ringberg): Sun.-Wed, May 2-5, 2010

Twiki will be updated: <http://aldebaran.hll.mpg.de/twiki/bin/view/DEPFET/WebHome>
-> Internal Pages (password required)

Workpackages

Page created: Internal Pages -> DEPFET General -> Meetings: Schedule & Archive

DEPFET PXD Work-Package Meetings

27.2.09 Data Acquisition (DAQ)

28.7.09 Mechanics/Cooling

7.8.09 Data Handling Hybrid (DHH)

meetings are announced
minutes/slides are
attached

Other workpackages, please follow:

- define details of work package
- prepare realistic schedule for your package
- document in Twiki

Important date: TDR by end of March 2010

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