



19th International Workshop on DEPFET Detectors and Applications



- Overview over the Workshop
- What is „Belle II“ (for Newcomers)
- Highlights from B2GM / BPAC Meetings, Feb. 2015
- Milestones for the coming 2 years



Overview of the Workshop (I)



Genuine Multi-Application Workshop for the DEPFET Technology:

From **Photon / Electron Science** to **Flavor Physics** and **Future Colliders**

Monday

9:00 morning and early afternoon: The Pixel Vertex Detector (PXD)
(Tracking and background, pilot run sensors, ASICs, interconnections)

16:15 Non-Belle Applications (ILC, Athena, e Det, Multi IGate DEPFET)

18:00 Meeting of the Institutional Board (IB)

20:00 EDet Meeting

no “organized” dinner, [coffee breaks 10:30 and 15:00, Lunch 12:30]

Tuesday

9:00 Pixel Vertex Detector (PXD): Lab Tests

10:30 Coffee Break

11:00 Test beam

12:30 Lunch

13:30 BEAST preparations, Services & Slow Control

15:00 Coffee Break

15:30 DAQ & Software

17:00 Technical Board (group leaders + ex officio)

17:00 Data Base Tutorial

19:00 Conference Dinner („Gotischer Keller“)

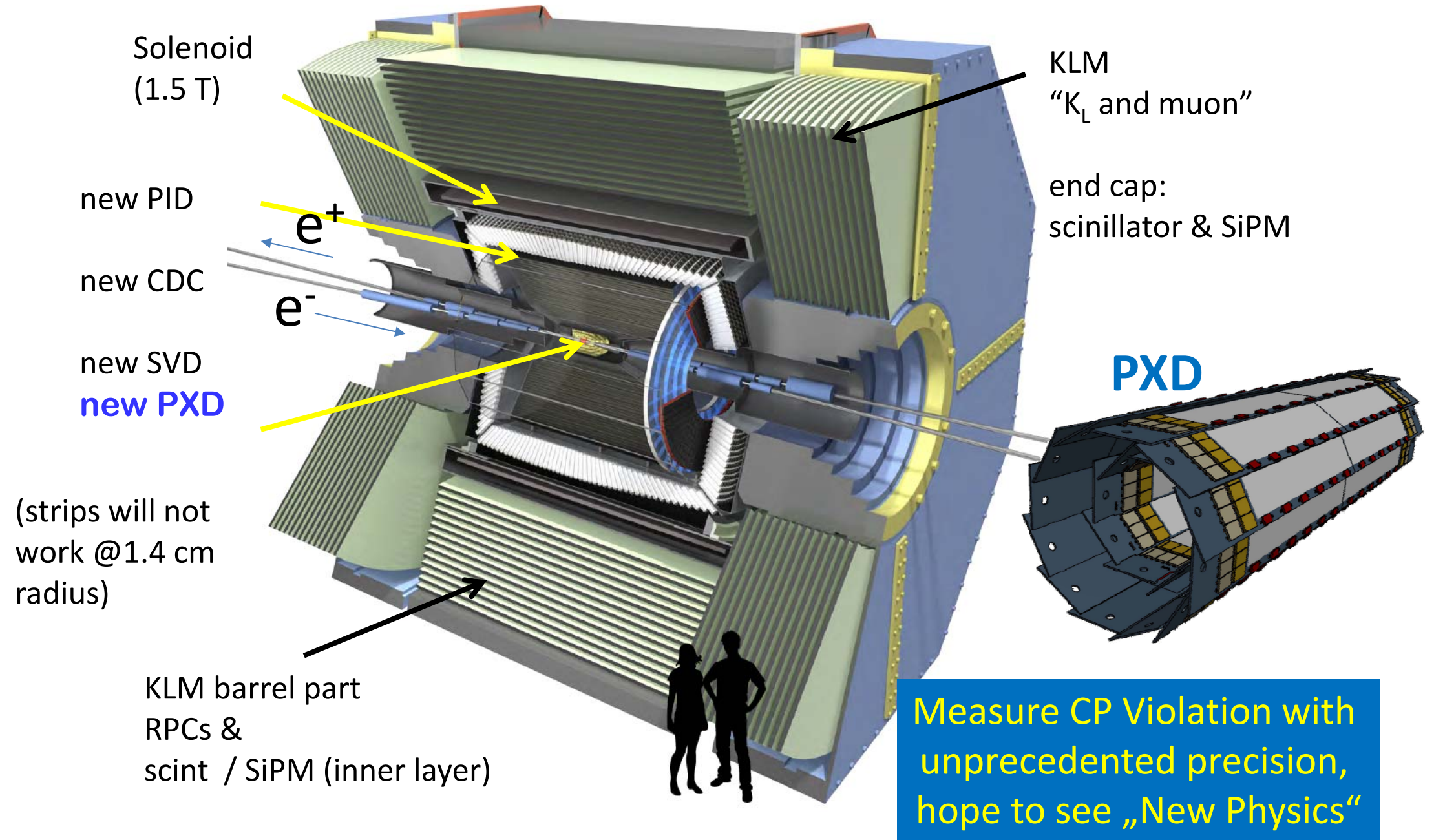
Wednesday

- 9:00 Pixel Vertex Detector (PXD): Thermo-Mechanics
- 10:35 Coffee Break

- 11:00 Technical Coordination / Wrap-up
- 12:30 Lunch

- 13:30 Adjourn

The Belle II Detector



Some topics relevant for the PXD (schedule)

- Financial crisis of SuperKEKB operation hopefully settled: start of machine (“Phase 1”) in Jan. 2016 seems possible
- BPAC Review:
helpful presentations from PXD side on overall status:
quite good “marks” received

Citation from the BPAC report:

The pixel detector project is on a good track. The team has successfully verified crucial steps in the production process, which gives strong confidence in the forthcoming detector production. However, the overall schedule is very tight. The committee thinks that the construction of a mockup for the cooling system must be completed according to plan so that crucial cooling tests of the components and the whole system can be started as soon as possible.

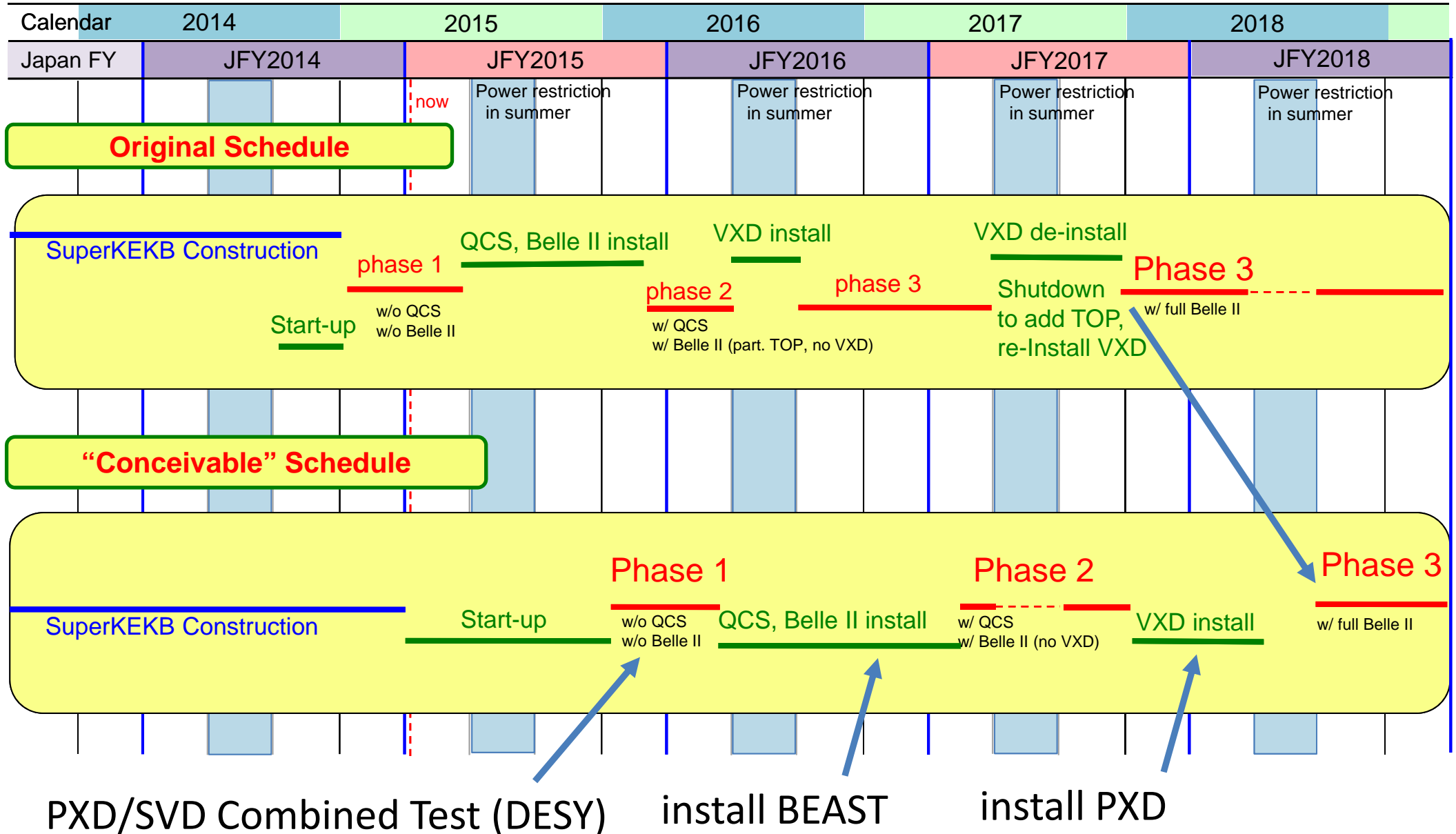
5.1.2 Concerns

- Although the introduction of a pilot run for production is a good tactical move and maximises confidence in proper operation of the detector, sensor production remains a critical step in the overall process.
- Balancing the availability of resources and ensuring that high priority issues discussed below get adequate, timely attention is a concern to the committee.

5.1.3 Recommendations

- The joint test beam with the SVD remains a very important system test and the committee strongly encourages the collaboration to give it the priority.
- The thermal mockup of the VXD is critically important. There have been several schedule delays. The committee urges that the thermal mockup test commence as soon as possible.
- The detailed mock-up of the assembly of the two sub-detectors and their integration with the beam line elements is highly commendable. The committee recommends that the attention to detail be kept up and even increased, especially with regard to the cooling requirements.

SuperKEKB / Belle II Schedule



- Pilot Run with first “hot wafers” (test by summer of 2015)
(bottleneck: established SMD mount procedure by end of June)
- DESY Thermal Test (includes PXD and SVD dummies) in 2015
- Build IBelle by fall of 2015, complete commissioning by 3/2016
- Build 2 ladders (from Pilot Run) for DESY VXD Beam test
(spring 2016), prepare Slow Control for VXD
- Final ASICs by spring 2016 (on pilot run sensors for BEAST 2)
- Build BEAST 2 sensor systems (FE-I4 and Scint/SiPM) by end 2016
- Finish PXD module / ladder production by spring 2017