



Fall 2015

State of the ID Lab

Sept 2015

Frazz >> Jef Mallett

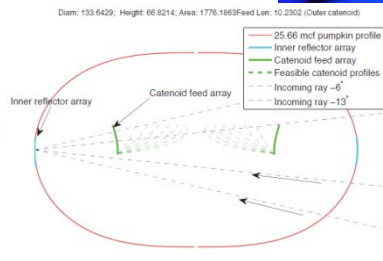
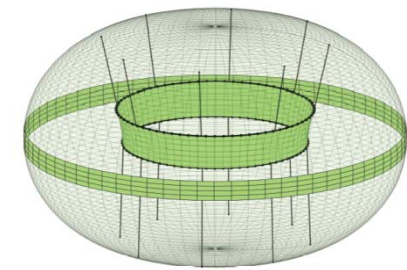
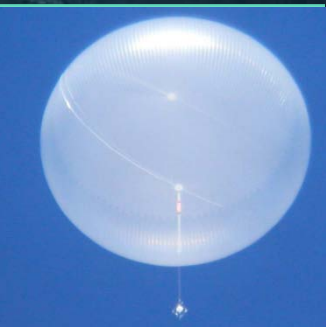
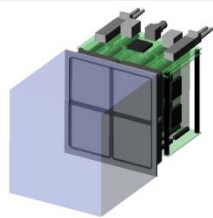


New/Immediate Projects

High intensity
MCP-PMT
Charge Sensitive
Amp GRAPH
ASIC

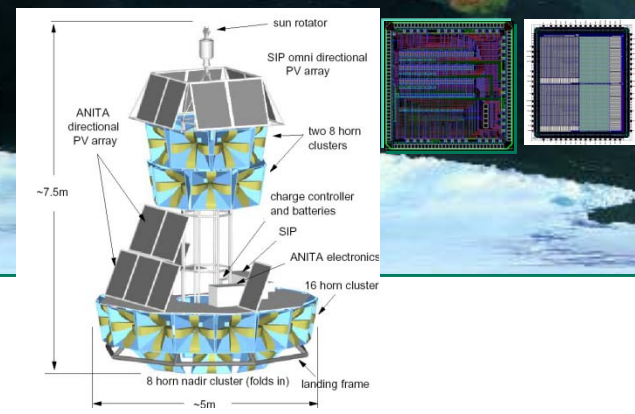
Neutron
Time Cube

Belle II Construction
& Commissioning
(pixel, Silicon Upgrades)



ExaVolt Antenna (EVA)

ANITA4



A long journey coming to an end

Welcome to the 1st **Open** Meeting of the
Super KEKB Collaboration.

(T. Browder, University of Hawaii)

KEKBとBelleに携わった全ての
人々に、アップグレード計画の成功
を祈念しつつ。

2008年10月9日

小林 誠

若い時はセトビ、
成長して大々的成果

2008年10月10日

て. φkawa

[All talks and discussions about the detector, physics and accelerator are open. However, there will be a closed session to discuss critical collaboration issues. The meetings will continue to have this format for at least the next year.]



June 30, 2010

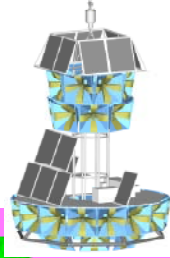


- Design Workshops started 2002
- First SuperKEKB beam in February, 2016

Big and Small



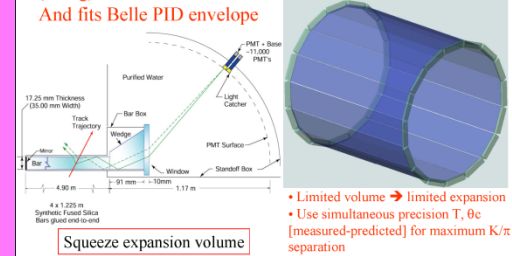
AMBER



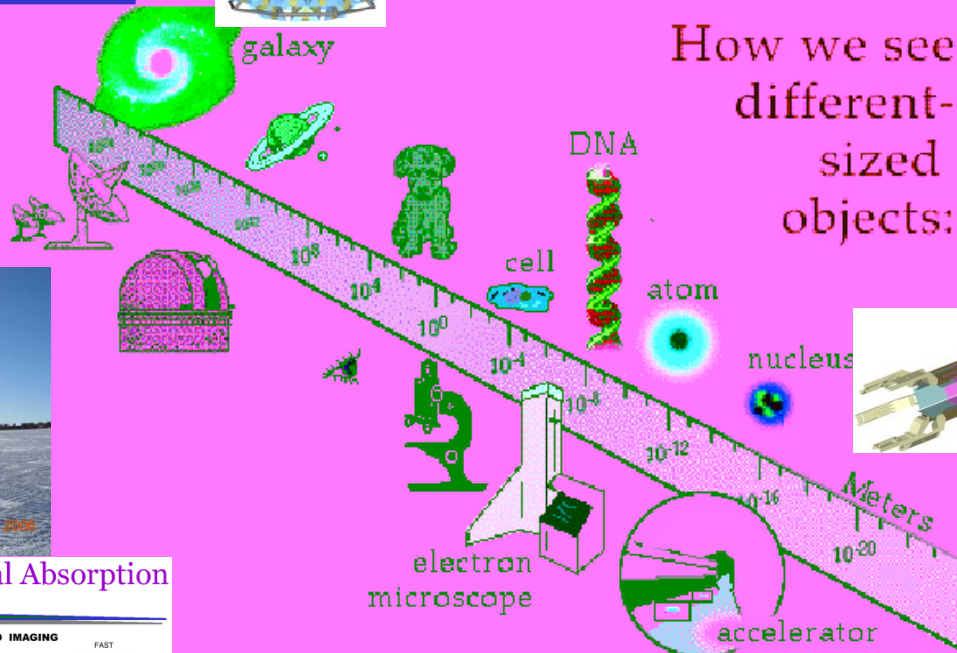
imaging TOP (iTOP)

Concept: Use best of both TOP (timing) and DIRC And fits Belle PID envelope

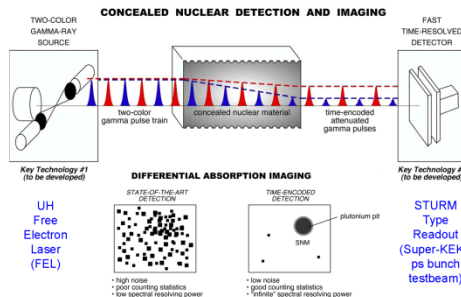
Drawings by Marc Rosen (UH)



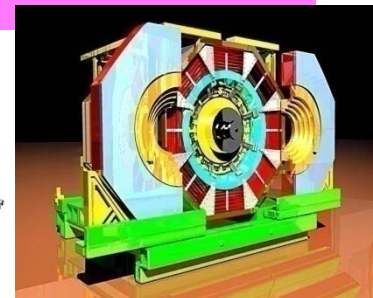
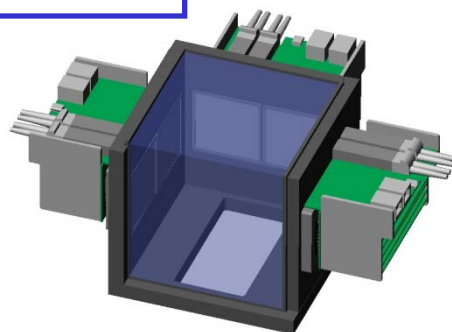
How we see different-sized objects:



Time-Encoded Differential Absorption

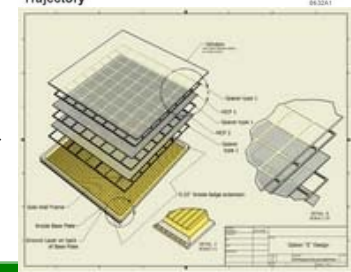
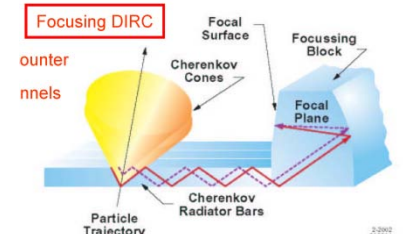


Neutrinos



BESIII

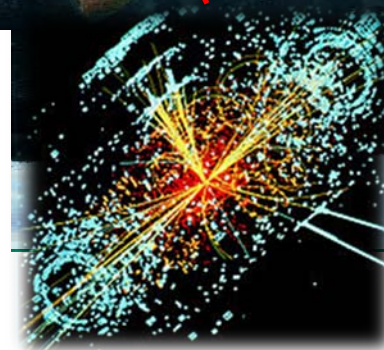
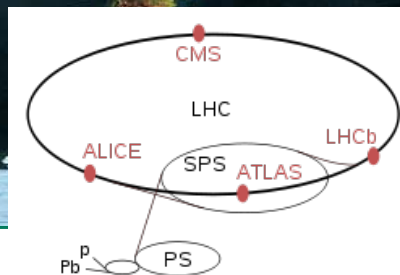
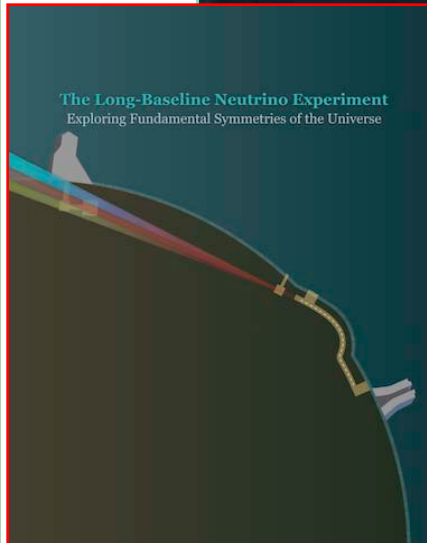
LAPD \rightarrow



We (you) are doing world-class research here

The Future?

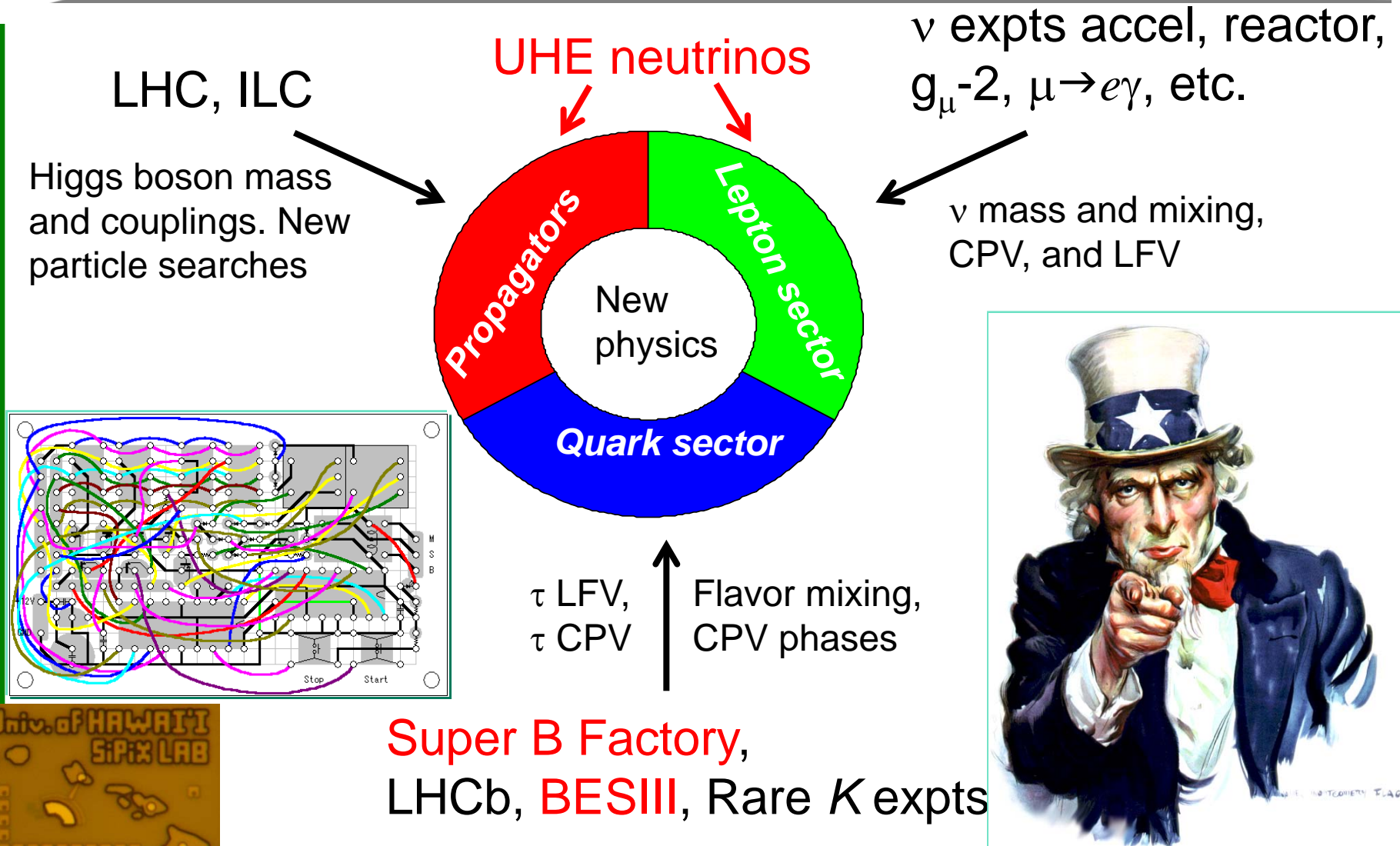
- Future Circular Collider in China



- LBNE LHC Upgrades ILC



We need you! (for new measurements)



Milestones and Opportunities

- Belle II – iTOP/KLM next year, pixel upgrade thereafter
- Disruptive technology: LAPPD/STRAP/PSEC5 commercialization
- ANITA 4th Flight next year → gotta make it work
- New radio initiatives: Greenland, UHE calorimetry
- Great opportunities – life cycle of a university
 - Jr./Sr. research projects (EE 399/499, PHYS 499)
 - Directed study/NASA Space Grant/REU (Japan/Antarctica)
 - Conferences & Publications (NIM/IEEE/JINST ...)
 - Board/firmware/chip design (PHYS476)
 - Many designs in queue; ALPS, P5P, GRAPH1, RFPIX1
 - Design, layout, simulation and test opportunities

