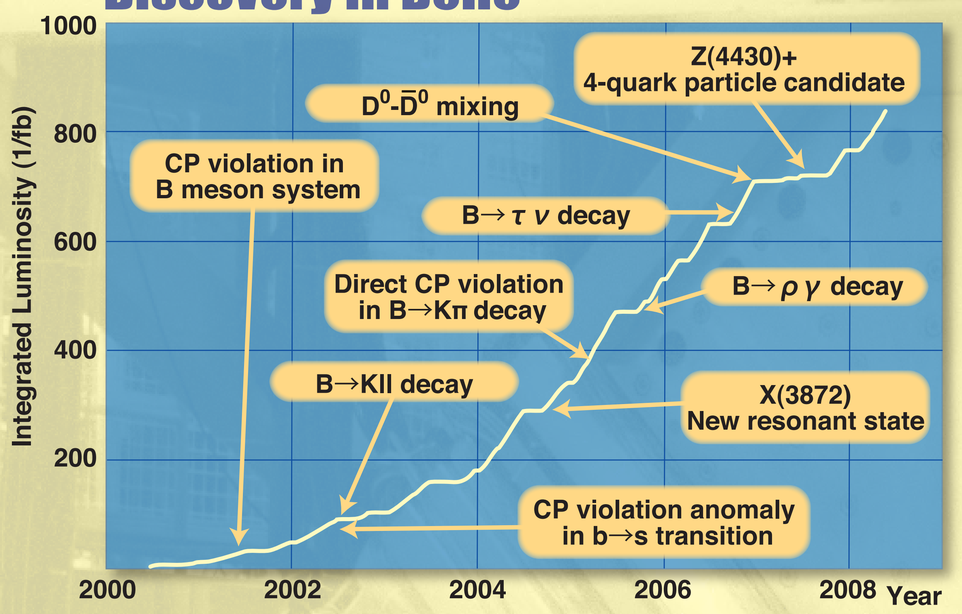
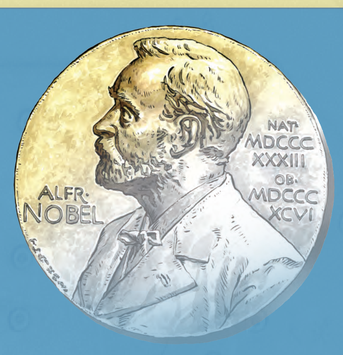
SuperKEKB & Belle II Project

Big Success in KEKB & Belle

Discovery in Belle



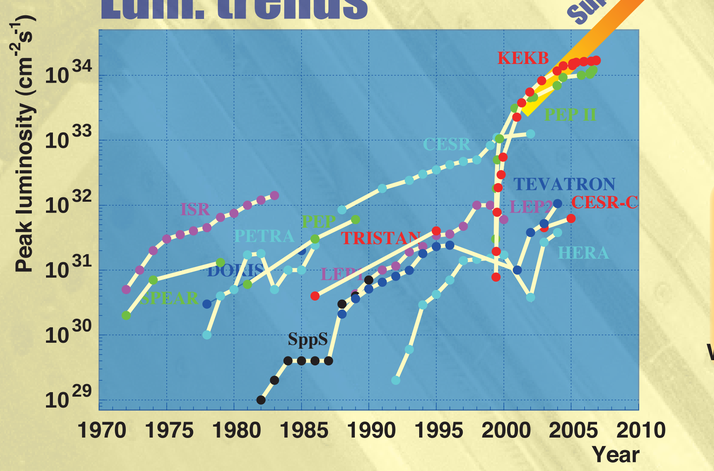
2008 Nobel Prize

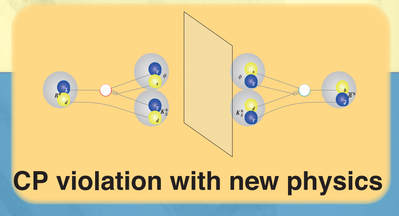


Belle results elucidates puzzle in matter & anti-matter in B meson system is explained by KM theory. This leads to the 2008 Nobel Prize in Physics for Profs. Kobayashi and Maskawa.

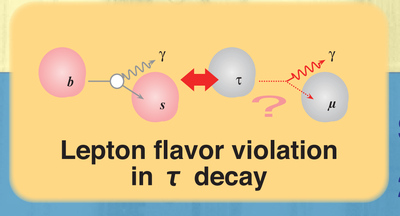
"New Physics" on the Horizon !

Lum. trends

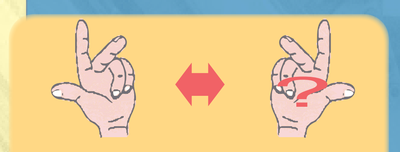




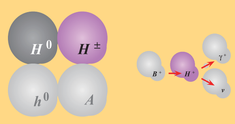
CP violation with new physics



Lepton flavor violation in τ decay



Left handed Weak interaction — Right handed Unknown interaction



Charged Higgs in new physics

2010 2012 2014 2016 2018 2020

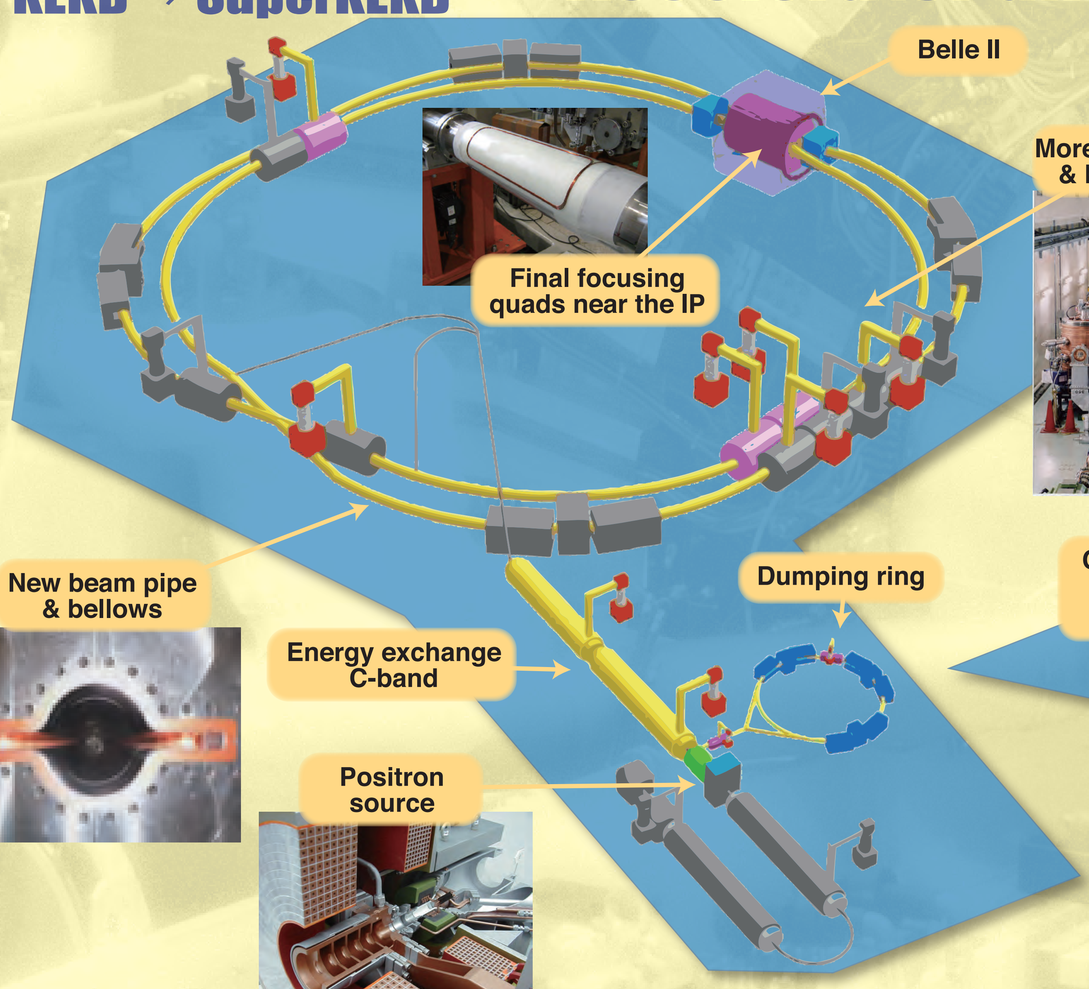
Belle II future

Schedule

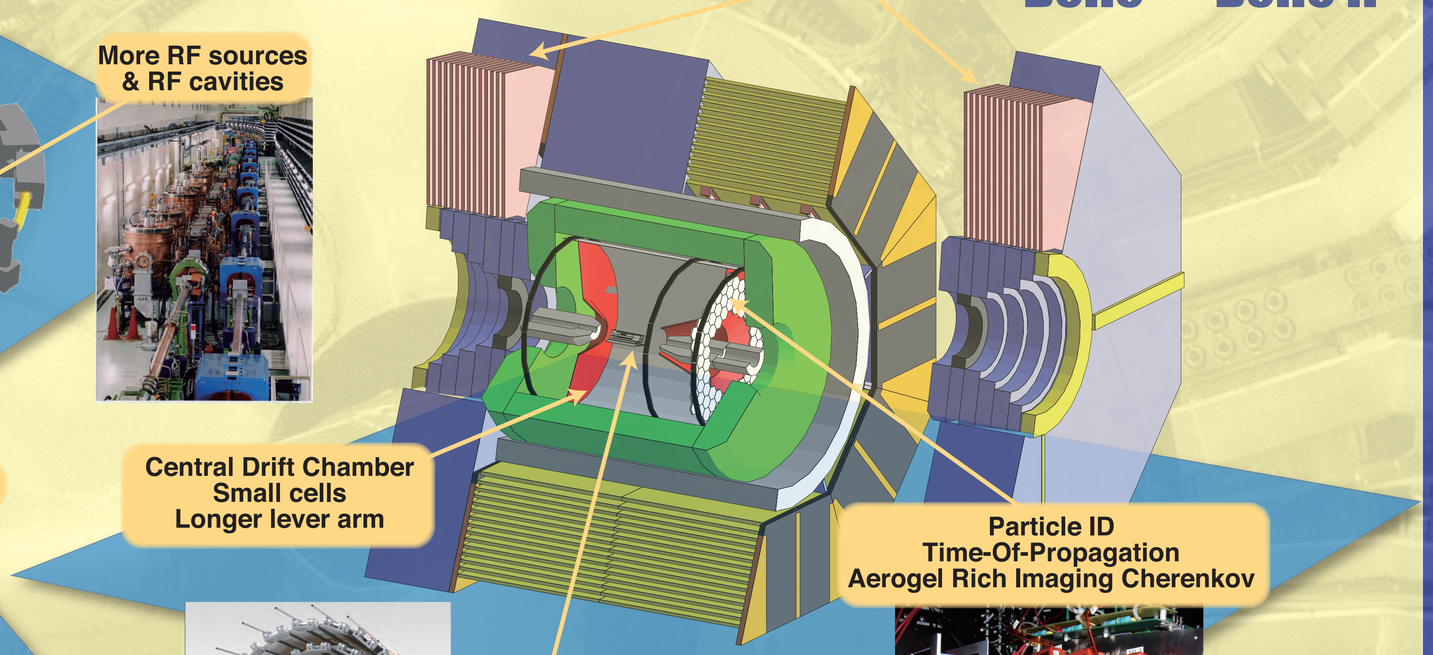
- 2008 : 1st call for experimental collaboration
- 2009 : International collaboration organized
  - Preliminary approval was given
  - Construction started
- 2010 : Full approval expected
- 2014 : 1st beam

Accelerator and Detector Upgrade

KEKB→ SuperKEKB



Belle→ Belle II



Belle II International Collaboration

Belle II collaboration as of Oct, 2009

Australia, Republik Österreich, China, Czech Republic, Germany, India, Japan, Korea, Poland, Russia, Slovenia, Taiwan, U.S.A.

Version 4
2010/04/06

High Energy Accelerator Research Organization
http://www.kek.jp

Belle II Collaboration
http://belle2.kek.jp

Super KEKB Group
http://kekb.jp