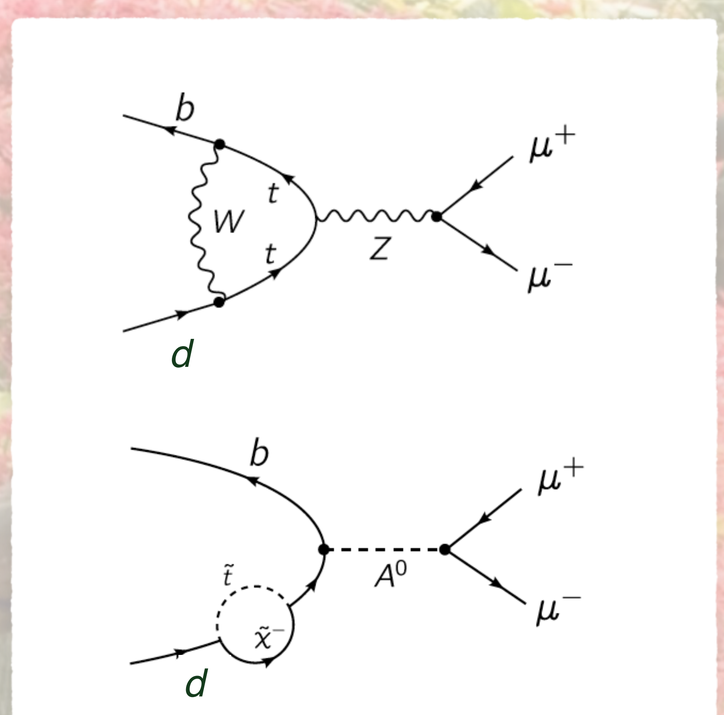
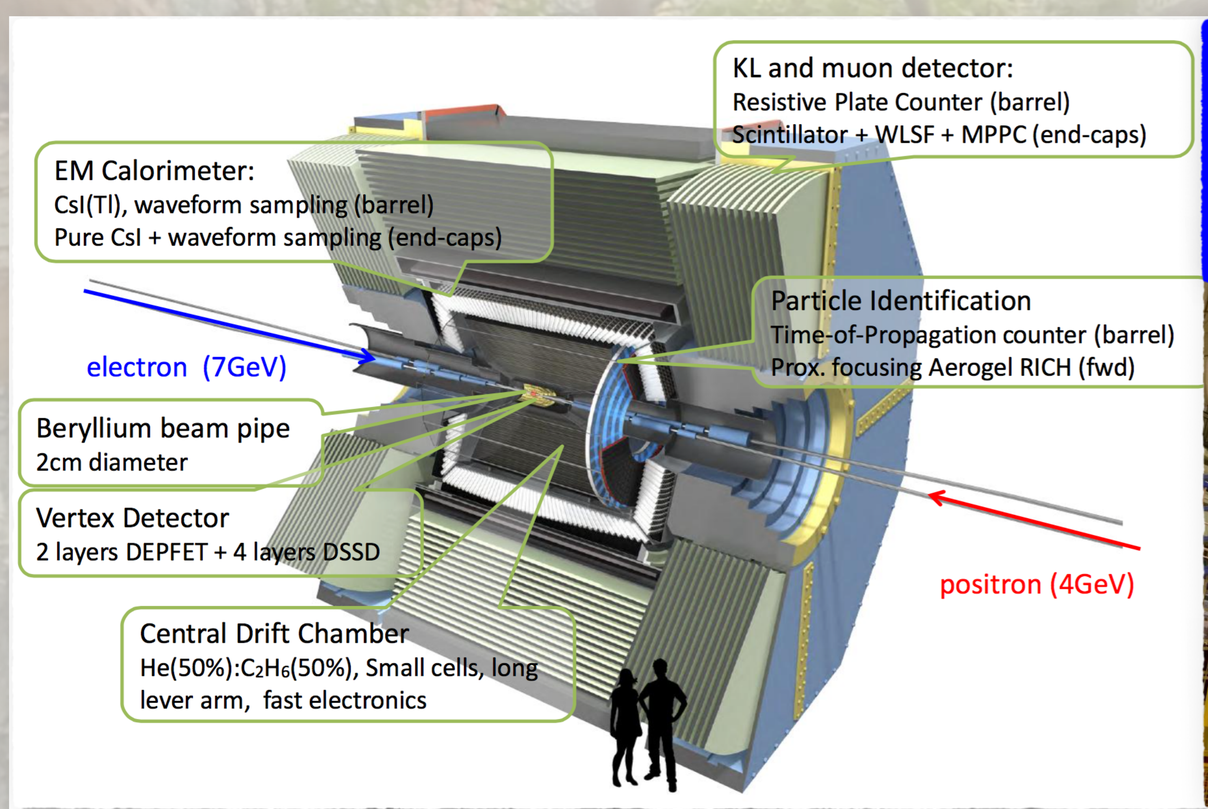
# Belle II

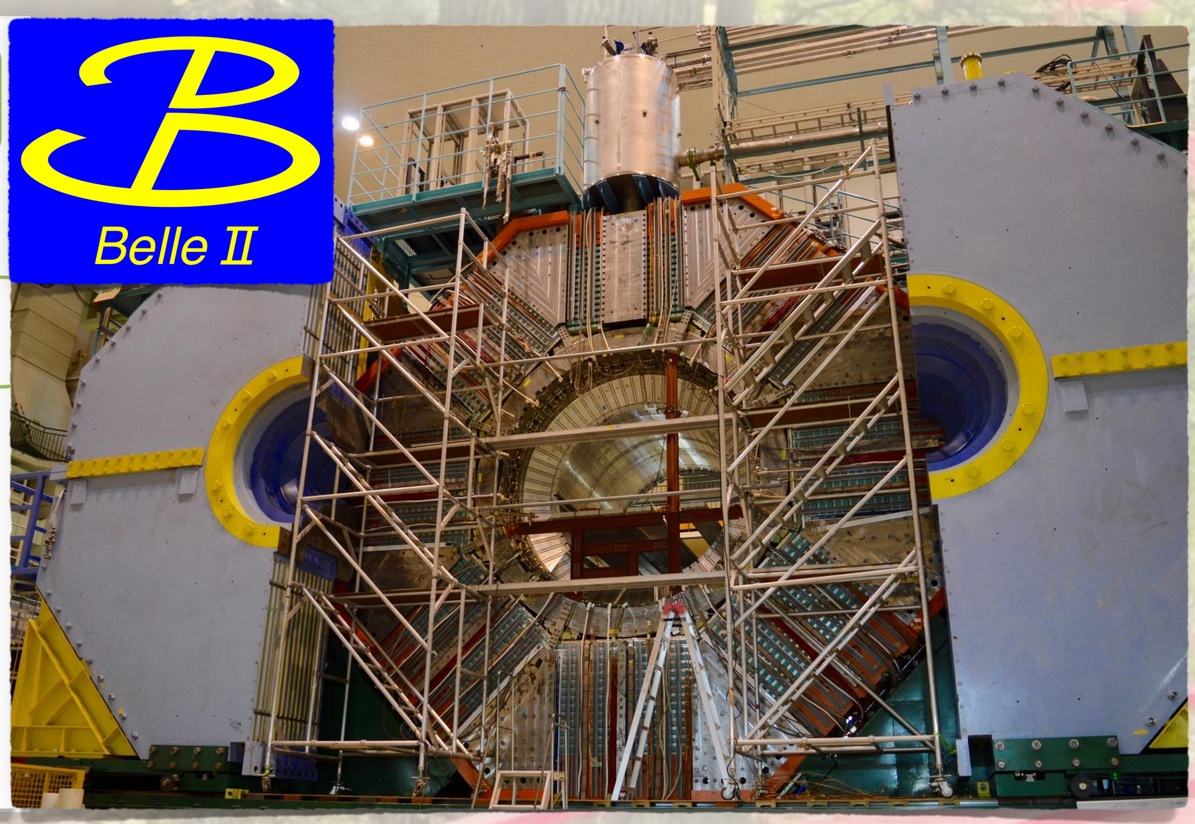
## The science

**Discovery at the intensity frontier.**




The Standard Model fails at ≈$10^{10}$ GeV.
Identifying the new particles that supplement it is the chief goal of today's particle physics.
Searches for virtual new particles in **heavy quark and lepton** transitions probe dynamics at energies higher than the LHC energy.




A state-of-the-art detector at the SuperKEKB $e^+e^-$ collider in Tsukuba, Japan — built and operated by 660 physicists from 100 institutions across 23 countries.

In 2017, Belle II starts recording up to $10^4$ collisions/s.
Unique access to τ-lepton dynamics, and unprecedented sensitivity in *B* and *D* decays into neutral particles, position **Belle II at the forefront of the intensity frontier.**

The Trieste Belle II group is rapidly expanding.
Now counting 10 scientists with a strong and diverse background in detector construction and data analysis.
Join us!