

# ML for the proto-collaboration

<http://superb.kek.jp/>



## Super B Factory at KEK

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### Welcome to the Super KEK B-factory home page

The KEK B factory experiment started operation in 1999. It has measured fundamental parameters of quark mixing by using a large sample that corresponds to an integrated luminosity of  $\sim 0.7 \text{ ab}^{-1}$ , or, 700 million *B anti-B* meson pairs, and has consequently verified the framework of the standard model of elementary particles.

We are proposing the *Super KEK B factory*, a project that detects new phenomena that arise from physics beyond the standard model, such as Supersymmetry, by using a much larger amount of data:  $50 \text{ ab}^{-1}$ , or, 50 billion *B anti-B* meson pairs.



The KEK site is located close to the Mt. Tsukuba, about 70 km from the both Narita-Tokyo airport and central Tokyo. This picture shows the 400 m long electron and positron linac and the buildings above the collider ring, whose circumference is about 3 km.

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A tentative ML until we form the collaboration

Equivalent to the [belle\\_ml@bpost.kek.jp](mailto:belle_ml@bpost.kek.jp)