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SuperKEKB/Belle-II Project

The Belle-II experiment at the SuperKEKB accelerator is a physics program to explore new phenomena in elementary particle physics by upgrading the present KEKB/Belle facilities. In the KEKB/Belle experiment, by accumulating billions of b-quark pairs (as it is called “factory”) from 1999, a lot of remarkable success have been accomplished. This is highlighted by the 2008 Nobel Prize in Physics received by M.Kobayashi and T.Maskawa.

Followed by successful achievements by the KEKB/Belle, the next generation of the “factory” project, SuperKEKB/Belle-II, is being proposed to investigate further frontier by getting more data. A preliminary approval has been recently given.

In the SuperKEKB accelerator, detailed design studies are going on to attain higher luminosity and, for the detector side, main detector elements in the Belle apparatus will be upgrade to the Belle-II detector so as to match new experimental environment.

The Belle-II collaboration is being organized. This group is highly international and more than 60 % of collaborators are from foreign countries.

In this poster, we will show physics potential to be studied at the SuperKEKB/Belle-II project and experimental challenge in the accelerator and detector technology will be shown. In addition, organization and schedule in this project, with emphasis on international activities, will be also described.

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