

Physics Potentials of the 2nd Hyper-Kamiokande Detector in Korea

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Hyper-Kamiokande (Hyper-K) succeeds the very successful Super-K experiment and will consist of a large detector filled with 260 kton water and equipped with 40% photo- coverage. Physics program of Hyper-K is broad, covering from particle physics to Astrophysics.

The 1st Hyper-K detector will be built in Japan, and the 2nd detector is considered to be built in Korea because locating the 2nd detector in Korea improves physics sensitivities in most cases thanks to the longer baseline (~1,100 km) and larger overburden (~1000 m) for Korean candidate sites.

In this talk, we present overview and physics potentials of the 2nd Hyper-K detector in Korea.

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