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Cryomodule Test Buncer for ITN

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ITN is an acronym for “ILC Technology Network”.

It is an international framework for the technological development outlined in the Work Package(WP).

KEK plans to produce one cryomodule equipped with eight superconducting 9-cell cavities for WP1 and 2 from 2023 and perform performance measurements in 2027.

A test facility will be required to perform the measurements.

We are preparing the cryogenics for the facility.

The refrigerator (Linde LR280) currently operating at KEK will be dedicated to that.

The helium transfer line was designed.

The design was based on KEKB’s transport line design, but it was slightly modified because ILC does not use liquefied nitrogen for the radiation shield.

The 2K refrigerator, purification filter, and other equipment are also considered. We will report on the status of those.

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