



Cryogenics Operations 2018

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Stable operation of the 2K cryogenic system at Peking University

A 2K cryogenic system was constructed for DC-SRF injector and 2x9-cell cryomodule of the Peking University Free Electron Laser (PKU-FEL) facility. A stability of the helium pressure better than ± 0.1 mbar and total refrigeration capacity of 65 W at 2K temperature has been reached with stable operation. A vertical test system for superconducting cavities was set up based on the 2K cryogenic system. A total cooling capacity of 200 W is got with the upgrade of the 2K pumping system. Vertical tests of superconducting cavities have been carried out successfully.

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