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Construction of the Cryogenic System for IHEP-ADS Injector I

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Accelerator driven sub-critical system ADS in China is a kind of transmutation machine to minimize the nuclear wastes. As one of the important parts in ADS, Injector I will be built in IHEP, CAS which needs two cryomodules operating at 2K cryogenic environment to realize 10MeV Proton beam energy; Each cryomodule contains seven Spoke cavities and seven superconducting magnets. This paper describes the design of the cryogenic system, which include flow chart analysis, key equipment, heat loads analysis, infrastructure and the progress.

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