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Cryogenics for CADS injector

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Accelerator driven sub-critical system in China (CADS) is a kind of transmutation machine to minimize the nuclear wastes. As one of the important parts in ADS, Injector will be built in IHEP, CAS needing two cryomodules operating at 2K cryogenic environment to realize 10MeV proton beam energy. Each cryomodule includes seven Spoke cavities and seven superconducting magnets. This paper describes the design and progress of the cryogenic system, which includes flow chart analysis, key equipment, heat load analysis and the current state.

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