

LLRF hardware design in SHINE

Wednesday, October 25, 2023 5:31 PM (4 minutes)

Shanghai High repetition rate XFEL and Extreme light facility (SHINE) is 8GeV, CW mode FEL facility. The length of LINAC is 1.2km. The 5.2kW SSA will drive the 1.3GHz SC. In LINAC, there are single cavity cryomodule with two high power couplers, ABBA injector cryomodule, 75's 1.3GHz standard cryomodules, two 3.9GHz harmonic cryomodule. The RF amplitude and phase requirement of one cryomodule are 0.01% and 0.01deg respectively. This presents will introduce SHINE status up to now and the LLRF hardware design.

Keyword

SHINE LLRF Hardware

Primary authors: Mr XUE, Kai (Shanghai advanced research institute. CAS); Mr YANG, Wenfeng (Shanghai advanced research institute. CAS); Mr ZHENG, Xiang (Shanghai advanced research institute. CAS); Ms HUANG, Xuefang (Shanghai advanced research institute. CAS); ZHAO, Yubin (Shanghai advanced research institute. CAS); Mr ZHANG, Zhigang (Shanghai advanced research institute. CAS)

Session Classification: Posters

Track Classification: Hardware