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Application of MicroTCA in ADS Proton Linac Injector I at IHEP

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The ADS Proton Linac Injector I is composed of an ion source, a low energy beam transport line, a 325MHz radio-frequency quadrupole, a medium energy beam transport line, a superconducting linac and a beam dump. The Low-level RF control system(LLRF) of the test facility adopts a hardware platform based on MicroTCA.4. We have developed the LLRF firmware and applications and now completed a preliminary commissioning and put them into operation. It is expected that the CW beam will be realized in the short future after the breakthghout 10MeV pulsed Proton beam has been achieved .

This talk will talk about the application of MicroTCA in ADS Proton Linac Injector I at IHEP.

Summary

The ADS Injector I used MicroTCA.4 Platform as its LLRF (low level radio-frequency) control system, which was the first time in China that this signal processing platform was applied to practical operation of a large accelerator facility.

Hope to hear more suggestions and opinions.

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