



Contribution ID: 1473 Contribution code: WEOGB2

Type: **Contributed Oral Presentation**

The beam commissioning of 10mA, 100 kW CW proton beam at CAFE

Wednesday, 10 May 2023 11:50 (20 minutes)

To develop the next generation of safe and cleaner nuclear energy, the accelerator-driven subcritical(ADS) system emerges as one of the most attractive technologies. The Chinese ADS proofing project(CAFE) was launched in 2011 under the management of the Chinese Academy of Sciences to demonstrate the key technologies including superconducting proton linac, heavy metal target and subcritical nuclear reactor. A 25 MeV superconducting proton linac is developed by the cooperation between Institute of Modern Physics and Institute of High Energy Physics. Recently a 10mA, 100kW CW proton beam has been accelerated successfully, which reaches a new world record in the CW proton linac field. In this paper, the beam commissioning activities and issues are reported.

Funding Agency

Footnotes

I have read and accept the Privacy Policy Statement

Yes

Primary author: WANG, Zhijun (Institute of Modern Physics, Chinese Academy of Sciences)

Presenter: WANG, Zhijun (Institute of Modern Physics, Chinese Academy of Sciences)

Session Classification: MC04.2 - Hadron Accelerators (Contributed)

Track Classification: MC4: Hadron Accelerators: MC4.A08: Linear Accelerators