Development and commissioning of the beam diagnostics for CIAE proton therapy system

Yang Wang, Zhiguo. Yin†, Tianjue. Zhang, Bohan. Zhao, Chuan Wang, Tianyi Jiang Qiankun Guo Chuanye Liu Peng Zhu, China Institute of Atomic Energy, Beijing 102413, P. R. China

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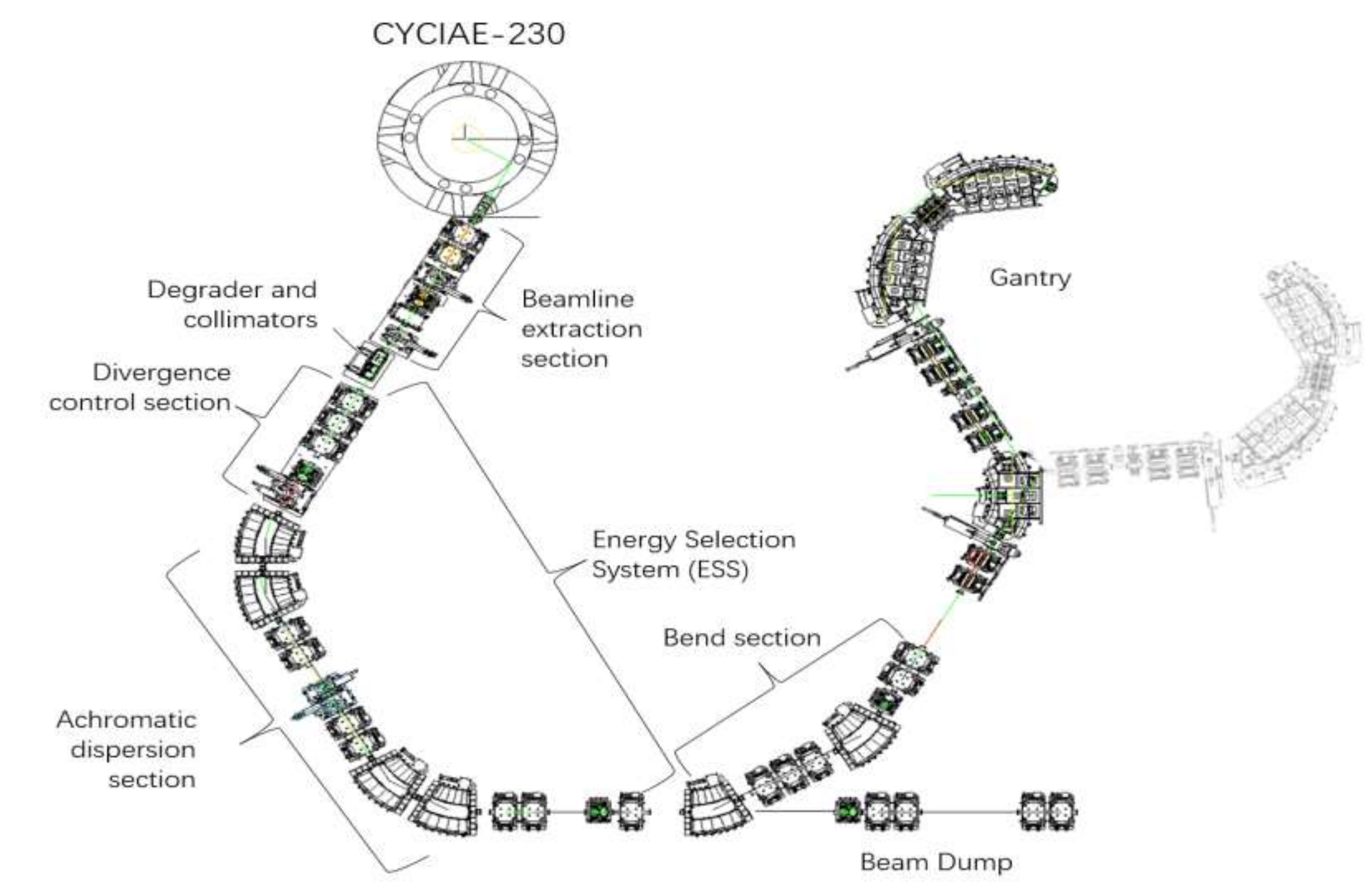

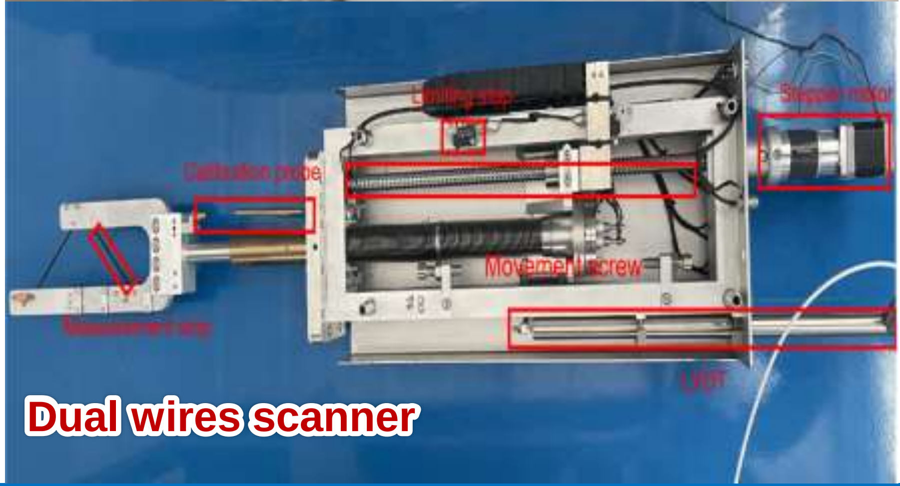

CYCIAE-230 superconducting cyclotron
and the Faraday cup, optical beam profile monitor and dual wires scanner

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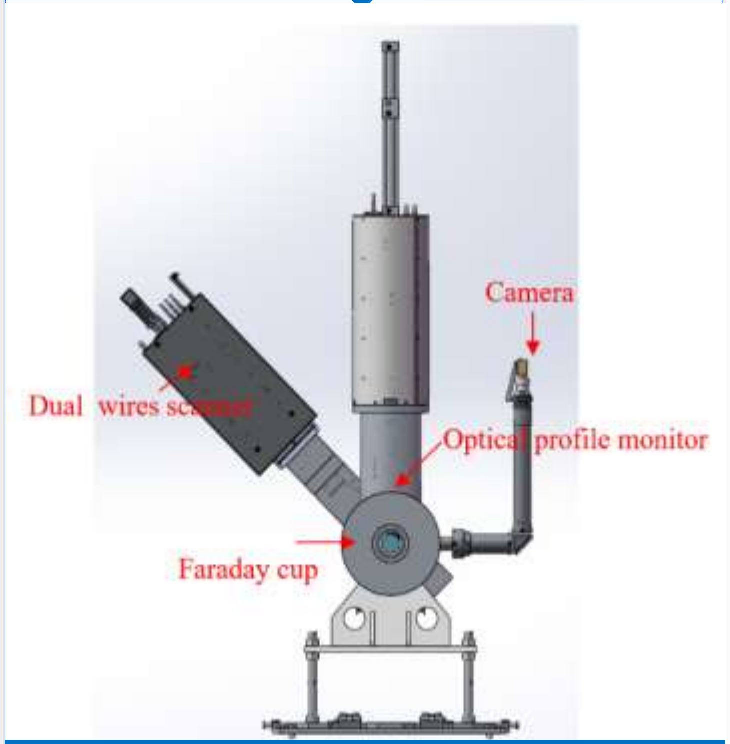
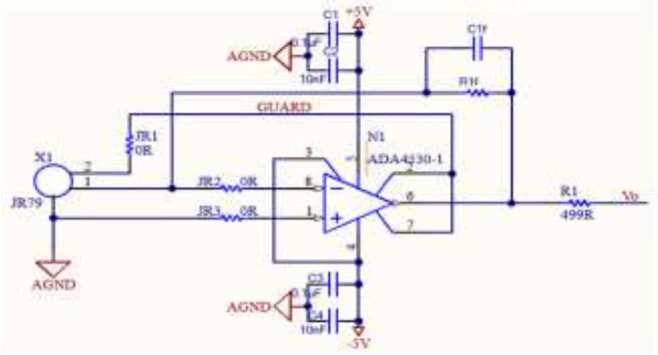
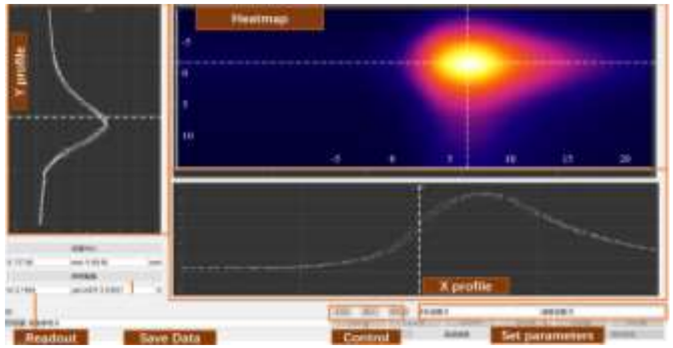
Compact Structure



The comprehensive diagnostic cavity consist of Faraday cup, profile monitor and dual wires scanner

High Gain and Resolution





The gain of electronic can reach 1mV/pA and the resolution is 0.1mm