

21st joint workshop on electron cyclotron emission (ECE) and electron cyclotron resonance heating (ECRH)

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Gyrotron anode voltage control in EAST ECRH system

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The diode-type gyrotrons are used in the EAST ECRH system[1]. The anode is one of the main components of the gyrotron[2]. We can control the output power of RF waves by changing the anode voltage. An anode voltage control system was developed based on the ethernet CompactDAQ chassis NI-cDAQ-9185[3]. The anode voltage can be controlled up to 30 kV, and the maximum current is 100 mA. The maximum modulation frequency is 5 kHz at 50% duty cycle.

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