

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

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Construction Status of a 110 GHz, 1 MW Gyrotron with Corrugated Waveguide Output

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Assembly is in progress on a 110 GHz, 1 MW gyrotron with HE11 mode output in corrugated waveguide. This is a significant improvement over conventional gyrotrons with Gaussian mode output. The gyrotron will connect directly to corrugated waveguide transmission lines without a requirement for a mirror optical unit. This results in higher mode purity and reduced RF loss, in addition to a major reduction in system cost and complexity. This presentation will describe the design and update the status of the program.

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