Low Power Measurements On A Mode Converter System Of Step-Tunable Gyrotrons

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Abstract
This presentation will show recent low power measurements on the quasi-optical mode converter system of step-tunable gyrotrons at FZK. For this purpose a mode generator was designed to excite more than one mode by choosing a broadband quasi-optical method. The field distribution of the output beam at different frequencies in the range of 120 GHz to 147 GHz will be shown in comparison with the calculations. Also the measurement setup consisting of a network-analyzer, a mode generator and the mode converter system under test will be discussed.

`Suggested Area: Gyrotron, frequency step tunable gyrotron`
`Suggested form of presentation: Poster presentation`