Abstracts

A Submillimeter-Wave Polarimeter for Plasma Diagnostics

C.H. Ma, D.P. Hutchinson and K.L. Vander Sluis. "A Submillimeter-Wave Polarimeter for Plasma Diagnostics." 1978 MTT-S International Microwave Symposium Digest 78.1 (1978 [MWSYM]): 469-470.

A submillimeter-wave laser polarimeter with ferrite polarization modulators is described. The poloidal magnetic field and the plasma current density of a tokamak can be determined by measuring the Faraday rotation of the laser beam in plasma. High polarization sensitivity was observed in a stimulated tokamak plasma experiment.

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