· Find Similar Abstracts (with default settings below)
· Electronic On-line Article (HTML)
· Also-Read Articles
·
· Translate Abstract

Title:	Detection of Forerunners in Structural Dispersion Using High Power Microwaves
Authors:	Agi, Kamil; Hegeler, Frank; Mojahedi, Mohammad; Malloy, Kevin; Schamiloglu, Edl
Affiliation:	University of New Mexico
Journal:	American Physical Society, Division of Plasma Physics Meeting, November 17-21, 1997, abstract #dMopM225.
Publication Date:	11/1997
Origin:	APS
Bibliographic Code:	1997APS..DPPdMoM25A

Abstract

Analogous to forerunners that exist in dispersive systems dominated by material dispersion (Brillouin and Sommerfeld type), we show the existence of forerunners in systems dominated by structural dispersion. In a novel application, high power microwaves generated using the Sinus-6 electron beam-driven backward wave oscillator are used to probe a three-dimensional periodic dielectric structure (photonic crystal). It is using this diagnostic that we have established the characteristics of the forerunners in the time-domain. Results of these diagnostics will be presented.

Bibtex entry for this abstract Preferred format for this abstract (see Preferences)

Add this article to private library Remove this article from private library

Find Similar Abstracts:

Use: ☐ Authors ☑ Title ☑ Abstract Text
Return: ◉ Query Results ○ Query Form Return 100 items starting with number 1
Database: ☐ Astronomy/Planetary ☐ Instrumentation

- [x] Physics/Geophysics
- [ ] arXiv e-prints

Send Query | Reset
