

Abstracts

Microwave Phase Conjugation Using Antenna Coupled Nonlinear Optically Pumped Surfaces

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An effort to extend phase conjugation techniques to microwave frequencies using optically injected active nonlinear elements is reported. Initial results were obtained using PIN diodes as detectors and microwave mixers as the nonlinear medium. Our current work is based upon optically injected HBTs as nonlinear mixing elements in conjunction with planar antenna arrays.

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