

414. Title:Nonorthodox heterodyne electro-optic detection for terahertz optical systems

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Abstract:An electro-optic detector of terahertz electromagnetic waves with boosted performance is presented. The detector utilizes a heterodyne detection technique to achieve orders of magnitude better responsivity compared to a standard detector setup. We prove theoretically as well as demonstrate experimentally the feasibility of this technique for electro-optic detection.