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Subpicosecond Optical Digital Computation Using Phase Conjugate Parametric Generators,....

12. PERSONAL AUTHOR(S)
Alfano, Robert; Eichmann, George; Dorsinville, Roger; Li, Yao

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18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)
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19. ABSTRACT (Continue on reverse if necessary and identify by block number)

Fundamental optical nonlinear processes based on X_2 and X_3 in different materials (liquids, polymers, and semiconductors) were investigated for size and speed. Ultrafast optical logic devices, switches, and processes based on these nonlinear optical materials were designed, built, and tested. Twenty one papers were published during this work in the period 1986-1987.

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