A real-time acquisition system for pump-probe spectroscopy

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A real-time acquisition system for pump-probe spectroscopy

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Kerr05.tex

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Philosophical Magazine & Philosophical Magazine Letters
Control Board

Encoder
Stepper-motor

BS1

from laser

Pump

Compensation Plate

BS2

Probe

Reference beam

P4

P3

$\lambda/4$

P1

Sample

F2

F1

Balanced Photodiodes Detector

High rep. rate

Lock-in Amplifier

Low rep. rate

Boxcar Integrator

<http://mc.manuscriptcentral.com/pm-pml>

Chopper reference

Laser trigger

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