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Femtosecond laser pulse shaping using a 4f-pulse shaper

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Abstract content
   (Max 300 words)

A computer controlled Spatial Light Modulator (SLM) in a 4f-geometry has been shown to be a versatile tool for manipulating the amplitude and phase of the spectral components in an ultra short femtosecond laser pulse. In doing so, it is possible to arbitrarily shape a femtosecond laser pulse in time. These shaped pulses have many applications ranging from materials processing to coherent control. This work will focus on explaining the operation and layout of the 4f-pulse shaper, including the functioning of the SLM, and we will present some examples to illustrate the power of this pulse shaping technique.

Apply to be
 consider for a student
   award (Yes / No)?

Yes

Level for award
 (Hons, MSc,
   PhD)?

PhD

Main supervisor (name and email)
and his / her institution

Erich Rohwer, egr@sun.ac.za, Stellenbosch University

Would you like to <br> submit a short paper <br> for the Conference
 Proceedings (Yes / No)?

No

Primary author: Mr SPANGENBERG, Dirk (Stellenbosch University)

Co-authors: ROHWER, Erich (Stellenbosch University); NEETLING, Pieter (Stellenbosch University)

Presenter: Mr SPANGENBERG, Dirk (Stellenbosch University)

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