

Universität Bern
Institut für Angewandte Physik
Sidlerstrasse 5
3012 Bern, Schweiz

Telefon:+41 (0)31 631 89 11
E-Mail: iapemail@iap.unibe.ch
www.iap.unibe.ch



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Seminar über Ultrafast Science and Technology

Referent/in: Aaron Riede, IAP, University of Bern

Titel: Single-shot interferometry

I present a project which extends a classical transient absorption spectroscopy setup towards 2D Fourier transform four-wave-mixing spectroscopy. This new approach banks on interferometric single-shot phase measurements with a 20 as precision and independent averaging of amplitude and phase instead of extensive active or passive phase stabilization and attosecond delay control.

I will further present different techniques for broad-band pulse compression and corresponding results down to 3fs.

Currently the setup works with visible light (520...740nm), but the concept can potentially be used in any spectral range.

Zeit: Donnerstag, 27.05.2021, 11.15 Uhr

Ort: <https://unibe-ch.zoom.us/j/95614042821>