

エクストリームフォトンクスセミナー

Extreme Photonics Seminar

日時: 平成21年7月15日(水)
11:00 ~ 12:00, July 15th(Wed), 2009

場所: 研究交流棟5階会議室 W524
Cooperation Center, 5F Meeting Room, W524

題目: **Controlling Coherent Processes by Phase-Shaping
Ultrashort Laser Pulses**

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要旨: The coherent properties of narrow bandwidth lasers have long been exploited to control processes such as excitation. Examples of such excitation schemes include pi-pulses, and adiabatic rapid passage. In contrast, the broad bandwidth inherent in ultrashort lasers gives one relatively little control in the frequency domain when compared to narrow bandwidth cw lasers. Nevertheless, spectral phase and amplitude control is possible through the use of pulse shapers of various types. In this work we discuss coherent excitation and photoassociation using shaped ultrafast laser pulses combined with narrow bandwidth lasers, giving greater control than would be possible with only one or the other.

