

Abstract Submitted
for the MAR07 Meeting of
The American Physical Society

A new UV femtosecond pulse shaper for controlling organic photochemistry DORIAN PARKER, ABIGAIL NUNN, KIERA JONES, HELEN FIELDING, University College London, THEORETICAL- PROF M.A.ROBB, B.LASORNE, M.J. BEARPARK, G. WORTH TEAM, UCL- R.E. CARLEY, T.BORDERS TEAM, ABERYSTWYTH-R. BURBIDGE, R. KING TEAM — We present a femtosecond pulse shaper that operates in the UV. Using a dual array 640 pixel SLM within a reflective mode 4-f configuration, visible light at 508nm is shaped and subsequently doubled in a SHG crystal to give shaped light in the UV at 254 nm. This device is to be used in a pump probe scheme with a constrained feed back optimisation to coherently control benzene S1 photochemistry in order to reach ground state fulvene.

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Date submitted: 03 Jan 2007

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