Non-Paraxial Polarization Spatio-Temporal Coupling in Light Matter Interaction

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Laser and Photonics Review

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**Available Files:**

**Blade\_055NA.opj.** Dataset of nanograting birefringence measurements

**bladeeffect.opj** Dataset of nanograting birefringence measurements

**NGbladeplots.opj** Datatset of nanograting birefringence measurements

**Sandy\_Results.opj** Electron concentration side-by-side with void formation for 1 and 2 uJ

**10\_0.jpg.** Optical image of 10 pulses, 0° polarization.

**10\_90.jpg.** Optical image of 10 pulses, 90° polarization.

**10pulses\_90\_1.jpg.**  Optical image 10 pulses, 90° polarization.

**fig9.pptx** Powerpoint containing all the electric field calculations of conditions in experiment

**055NAblade.jpg** Plot of birefringence measurements for NA = 0.55

**Final\_Pub\_Figures.pptx** Powerpoint containing all renditions of the final figures used in publication

**Publication\_Figures.pptx** Powerpoint containing initial observations in beginning of experiment

**Sandy\_200kHz.jpg and Sandy\_500kHz.jpg** Plots of birefringence for changing polarization

**Figs.pptx** Powerpoint containing all figures created throughout the process of this experiment for different talks and presentations

**2013.zip, 2014\_Pt\_1.zip, 2014\_Pt\_2.zip, 2014\_Pt\_3.zip, 2015.zip and 2016.zip** Collection of all raw optical, birefrigent and contrast phase microscopy images over 4 years of experimentation.

**Date of data collection:** from November 2013 - March 2016

**Information about geographic location of data collection:** University of Southampton, U.K.

**Date that the file was created:** February 2017