

438. Title:A 10 THz ultrafast function generator-generation of rectangular and triangular pulse trains

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Abstract: We report the synthesis of a user-specified, shaped ultrafast pulse train by manipulating the spectral phases of Raman sidebands with a wide frequency spacing line-by-line. Trains of rectangular and triangular pulses are stably produced at an ultrahigh repetition rate of 10.6229 THz, reminiscent of an ultrafast function generator.