

<b>Title</b>	<b>Impact of temporal, spatial and cascaded effects on the pulse formation in ultra-broadband parametric amplifiers</b>
<b>Authors</b>	T. Lang <sup>1,2</sup> , A. Harth <sup>1,2</sup> , J. Matyschok <sup>1</sup> , T. Binhammer <sup>3</sup> , M. Schultze <sup>2</sup> , and U. Morgner <sup>1,2,4</sup>
<b>Publication</b>	Optics Express, Vol. 21, Issue 1, pp. 949-959 (2013) <a href="http://dx.doi.org/10.1364/OE.21.000949">http://dx.doi.org/10.1364/OE.21.000949</a>
<b>Abstract</b>	A 2 + 1 dimensional nonlinear pulse propagation model is presented, illustrating the weighting of different effects for the parametric amplification of ultra-broadband spectra in different regimes of energy scaling. Typical features in the distribution of intensity and phase of state-of-the-art OPA-systems can be understood by cascaded spatial and temporal effects
<b>Laser Quantum Product</b>	<b>venteon OPCPA; venteon dual</b>
<b>Institute</b>	<sup>1</sup> Institute of Quantum Optics, Leibniz Universität Hannover, Welfengarten 1, D-30167 Hannover, Germany <sup>2</sup> Center for Quantum Engineering and Space-Time Research, Welfengarten 1, D-30167 Hannover, Germany <sup>3</sup> VENTEON Laser Technologies GmbH, Hertzstr. 1b, D-30827 Garbsen, Germany <sup>4</sup> Laser Zentrum Hannover, Hollerithallee 8, D-30419 Hannover, Germany