

both higher and lower center frequencies. This result was still obtained with the standard nonlinear Schrodinger equation (Eq. (4)). However, for proper simulation of intense Airy pulse excitation, one should also add additional terms to account for higher-order nonlinear effects such as Raman scattering and self-steepening.

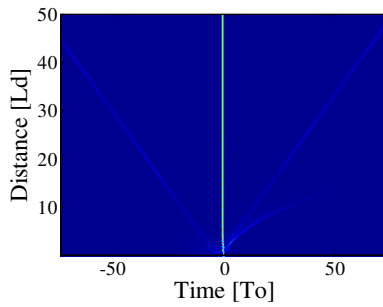


Fig. 12. Intensity distributions as a function of time and propagation distance for $R = 4$, showing multiple soliton shedding at high launched peak powers.