Time evolution of width for Gaussian wave packet $\sigma_{x}(t)$ $\sigma_{x, \, analytical}(t)$ 3.5 $\sigma_k(t)$ $\sigma_{k,\,analytical}(t)$ 3.0 2.5 $x [A], k [A^{-1}]$ 1.5 1.0 0.5 100 200 ò 300 400 t [fs]