

Fix new $q f^2$

input parameter = 1 ps \sim change the parameters correspondingly

1 ps

switch gamma to 3

start 2 pulses in each component

①

test

prop E_{eff}

see
change
effs

effects

test this
dispers \Rightarrow see
lower \Rightarrow disp

dispers^o

group velocity

low if dispers

(not much zoom, if $T \downarrow$ the disp?)

P field = no group velocity

Field

② ser direct pulse = 1 ns

switch
to a
scale

dispers^o will change accordingly

AUTOMATE IT

Plot it as a f^o of
proper distance

next steps

- fit waveguide to 1 pulse in P

pulse amplitude: $\text{sech}_{\text{max}} = 1 \text{ cm} \rightarrow 1 \text{ WATT}$
 $\sqrt{100 \text{ m}^2}$



change amplitude $1 \rightarrow 0.8 \text{ wts}$
will change the dynamics
≈
check

- waveguides - how many wts
per line

Research

damage threshold within

manuscript: orders of mag

↳ continuous

space loss

check heap built up

→ thermal damage

• look spectral content:

3 plots: instead of time
we have wavelengths

frequency δ = frequency detuning
Fundamental harmonic: f_F

$$\lambda_F = 1.5 \text{ nm}$$

$$\omega_F = \frac{2\pi c}{\lambda_F}$$

$$\omega = \omega_F + \delta$$

$$t = \frac{2\pi c}{\omega}$$

$$\bar{\omega}_F + \delta$$

Second Harmonic - (S)

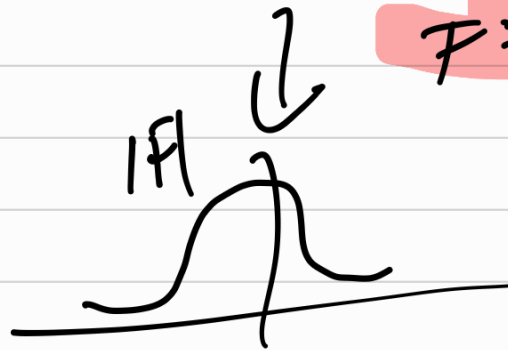
↳ depends on notation

check in soliton paper
 $= 2\delta$

• FFT of field



check
sim tech



FFT shift

