

normalisation

point-iso.

fluence point-iso.m LS7

PLASMA CHANNEL - p L196

LOSSES - PLASMA → L78 L79

LOSSES - IONISATION → L78 L79

pxexnx → ?

(do plasma slowly varying envelope
absolute of the complex field)

peakwise L142

(TW/cm²)

energy ... L79

rhomex ... L196

units P_{crit}

parmax ... L102C

~ $\langle \text{Poynting vector} \rangle$

$|E|^2$

↑

complex amplitude

X
I

refractive index

grid - $in(r, z, n)$

* Make - stat: L156

$y \rightarrow 4r$

$t - / 0, 200 \quad 200, 10^{10}$

$4-r, 2-z$

$$r = (0, 200, 200, 1^{10})$$

output - field - out

4, 2 ∈ dimension

$r \quad 0 \quad 200 \quad 200 \quad 10^{10}$

$z \quad 0 \quad 1 \quad 1 \quad 1.5 \quad 1.5$
 10^{10}

← array

$1 \quad 1 \quad 1.5 \quad 1.5$

$xx - v\text{-vector}$

$tt - z\text{-vector}$

lattice - ava

normalisation. f90

mult-phase

→ buffer

FLUENCE → every one 100 steps

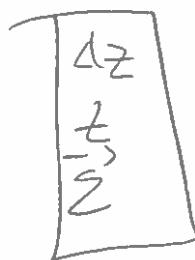
or rare

$Z \leq DZ \rightarrow$ write (only once)

$\Delta Z_1 \rightarrow$ half step

writing time

→ running the code in the middle



normalisation

[SI] ← units

• \rightarrow critical density (cm^{-3})
 $\rightarrow w_0 (\text{cm})$

$\lambda \rightarrow$ photon energy (a.u.)