

normalisation

print-iso

fluence print-iso.m 137

PLASMA CHANNEL - p L196

LOSSES - PLASMA \rightarrow ~~L78~~ L79

LOSSES - IONISATION \rightarrow ~~L78~~ L79

$P_{exmax} \rightarrow ?$

(do plasma

slowly varying envelope
absolute of
the complex
field

peakmax L142

energy L79

rhonex ... L196

paramax ... L102

units P_{crit}

$\sim \langle P_{sig} \text{ (in vector)} \rangle$

$|E|^2$

\uparrow
complex amplitude

~~X~~
I

refractive index

grid - in(r, z, n)

* Make = stat: L156

~~402~~ 4r

r - 0, 200 200, 10^{10}

4-r, 2-z

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

output - field-out

4, 2 dimension

r 0 200 200 10^{10}

z $\begin{pmatrix} 0 \\ 1 \\ 10^{10} \end{pmatrix}$ 1 1.5 1.5

1 1 1.5 1.5

← array

xx - r-vector

zz - z-vector

lattice - aya

normalisation - f90

mult-phase

→ buffer

FLUENCE → every one 100 steps

rare

$z \leq \Delta z \rightarrow$ write (only once)

$\Delta z_h \rightarrow$ half step

~~normalisation~~

→ running the code in the middle

Δz
z
Σ

normalisation

[SI] ← units

• → critical density (cm^{-3})

→ ω_0 (cm)

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