

Simulation Parameter



STUDIES



FDTD draft

Editor

CONFIGURATION

Simulation Domain

Run Time

Grid Specification

Boundary and Symmetry

Shutoff Condition

Show More

STRUCTURES

SOURCES

MONITORS

SCRIPT OBJECTS

3D Chart

2D Chart

Task Details

Run



Validation pass

Visibility

Axes

Ruler

Simulation Domain

Sources(0/1)

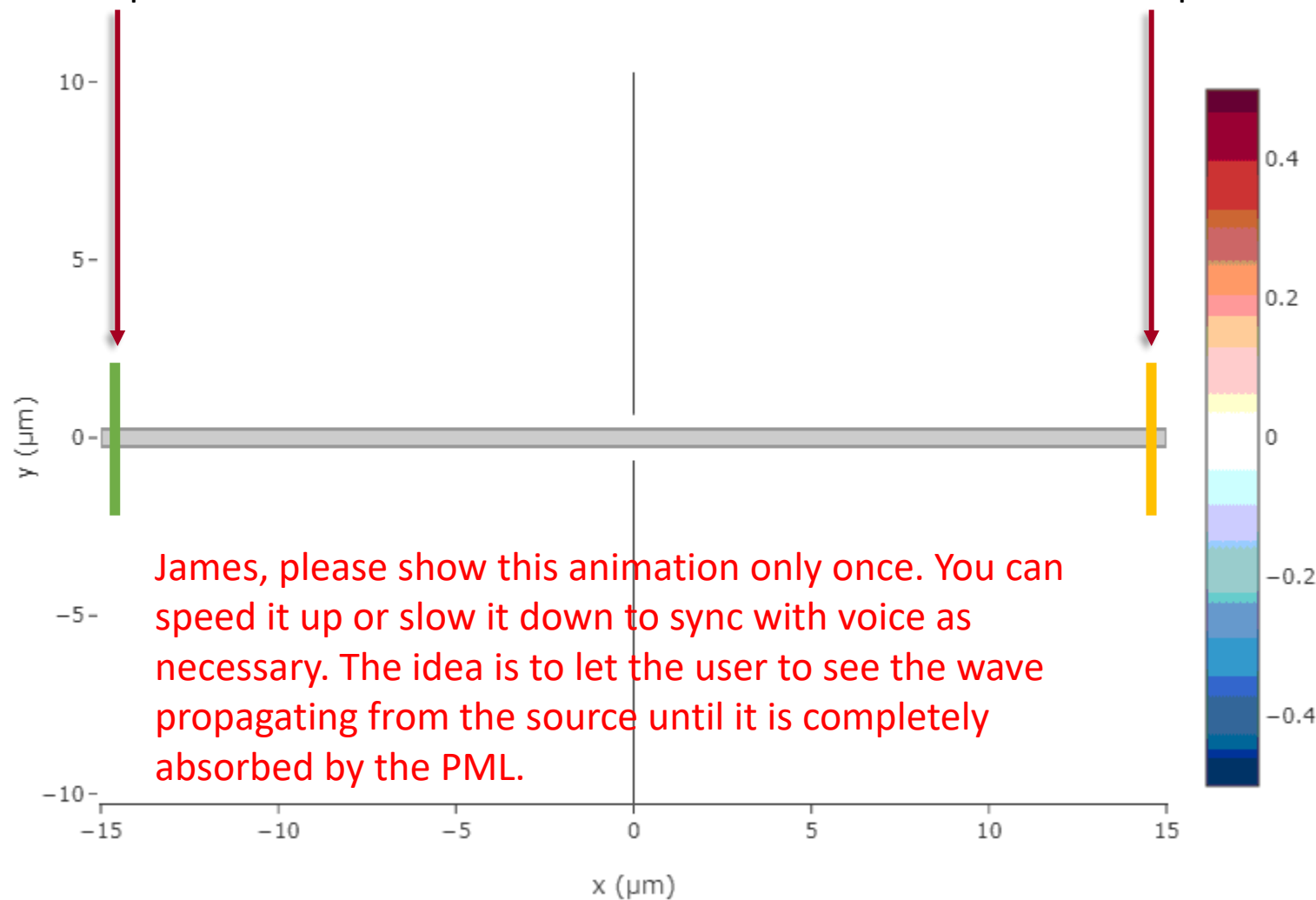
Monitors(0/1)

Structures(1/1)

waveguide

Source plane

Monitor plane





Simulation Parameter &lt;

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CONFIGURATION

- Simulation Domain
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- Shutoff Condition

Show More

&gt; STRUCTURES

&gt; SOURCES

&gt; MONITORS

SCRIPT OBJECTS

3D Chart

2D Chart

Task Details

Run

Validation pass

&gt; Visibility

Axes

Ruler

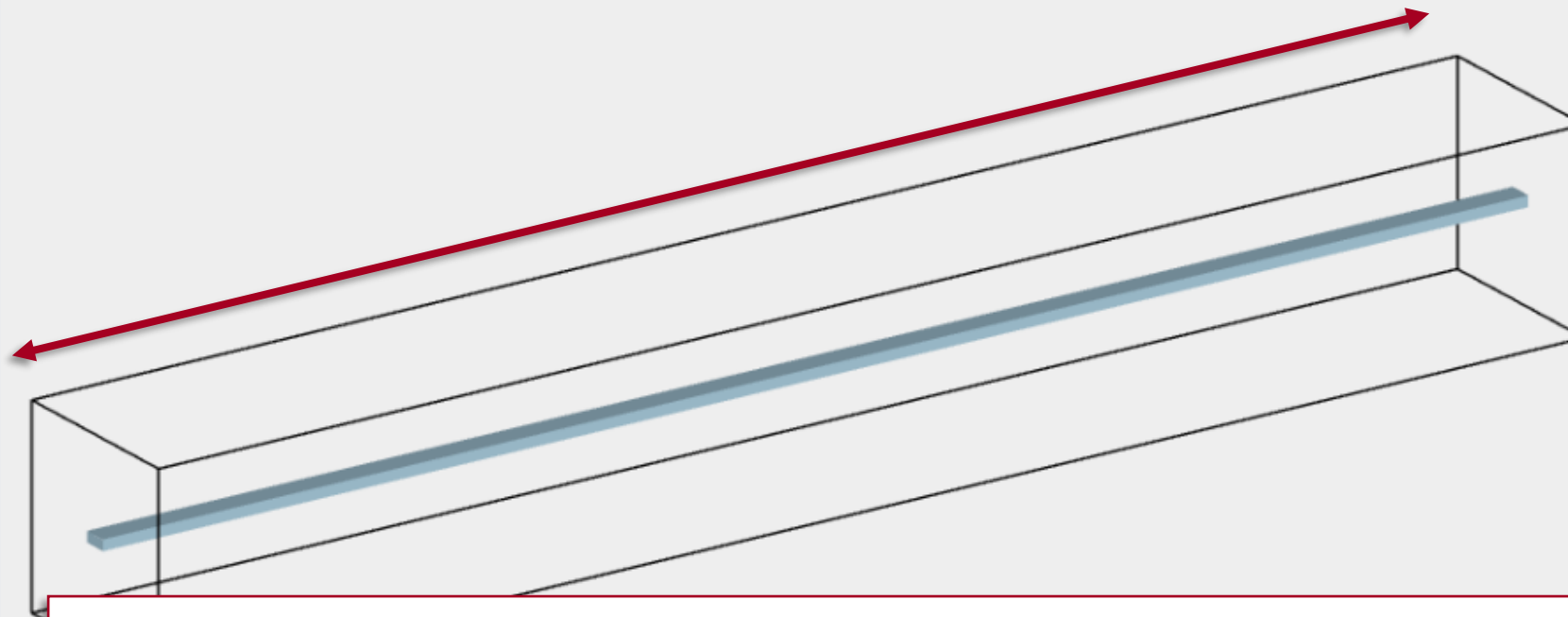
Simulation Domain

&gt; Sources(0/1)

&gt; Monitors(0/1)

&gt; Structures(1/1)

waveguide



$$\text{Run Time} \cong \frac{\text{largest dimension} \times n_g}{c} + \text{source\_time [s]}$$



Simulation Parameter &lt;

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Run Time

Grid Specification

Boundary and Symmetry

Shutoff Condition

Show More

STRUCTURES

waveguide

SOURCES

MONITORS

SCRIPT OBJECTS

3D Chart

2D Chart

Task Details

Run

Validation pass

Visibility

Axes

Ruler

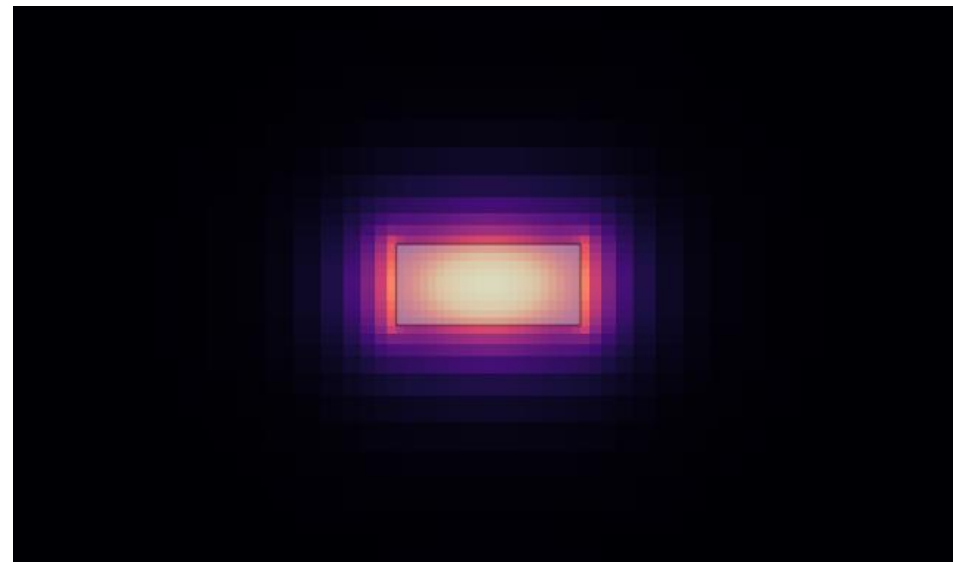
Simulation Domain

Sources(1/1)

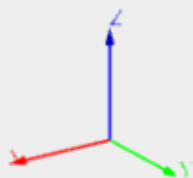
Monitors(0/1)

Structures(1/1)

waveguide



$$n_g = 4.37$$



Simulation Parameter

STUDIES

FDTD

Editor

CONFIGURATION

Simulation Domain

Run Time

Grid Specification

Boundary and Symmetry

Shutoff Condition

Show More

STRUCTURES

SOURCES

mode\_source

MONITORS

SCRIPT OBJECTS

Edit Source

direction

+

num\_freqs

1

source\_time

GaussianPulse

Plot

wavelength

frequency

λmin

1.5

μm

λmax

1.6

μm

Customize source bandwidth

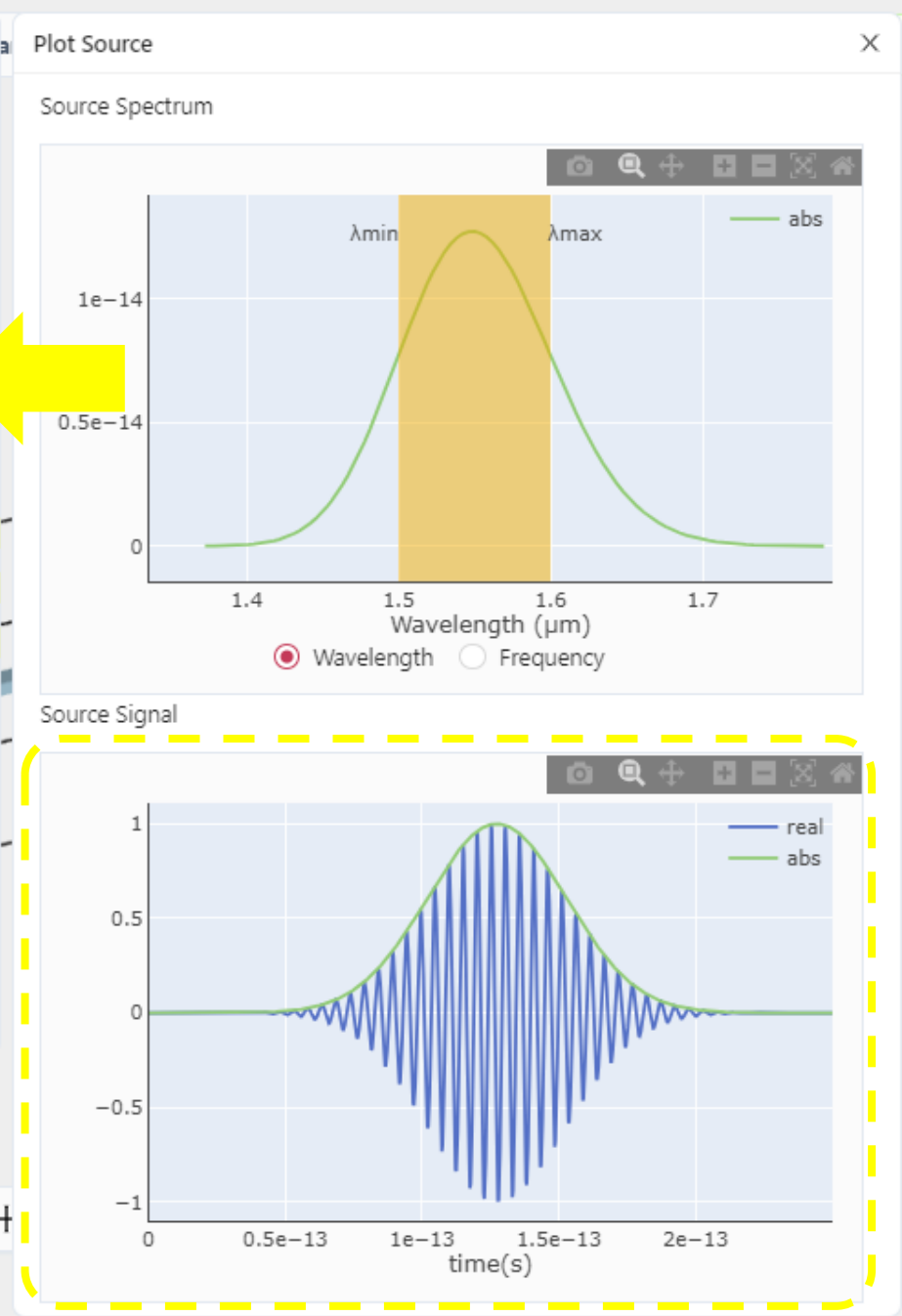
0.5

freq0: 1.93414e+14 Hz

fwidth: 6.24567e+12 Hz

Advanced

Apply



Visibility

Axes

Ruler

Simulation Domain

Sources(1/1)

Monitors(1/1)

Structures(1/1)

waveguide



Simulation Parameter ⏪

✓ STUDIES



FDTD

draft

Editor

✓ CONFIGURATION

Simulation Domain

Run Time

Grid Specification

Boundary and Symmetry

Shutoff Condition

Show More ▾

&gt; STRUCTURES



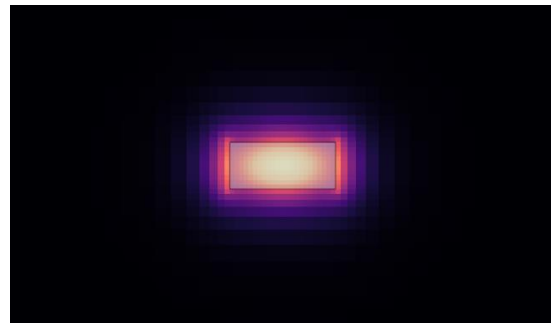
&gt; SOURCES



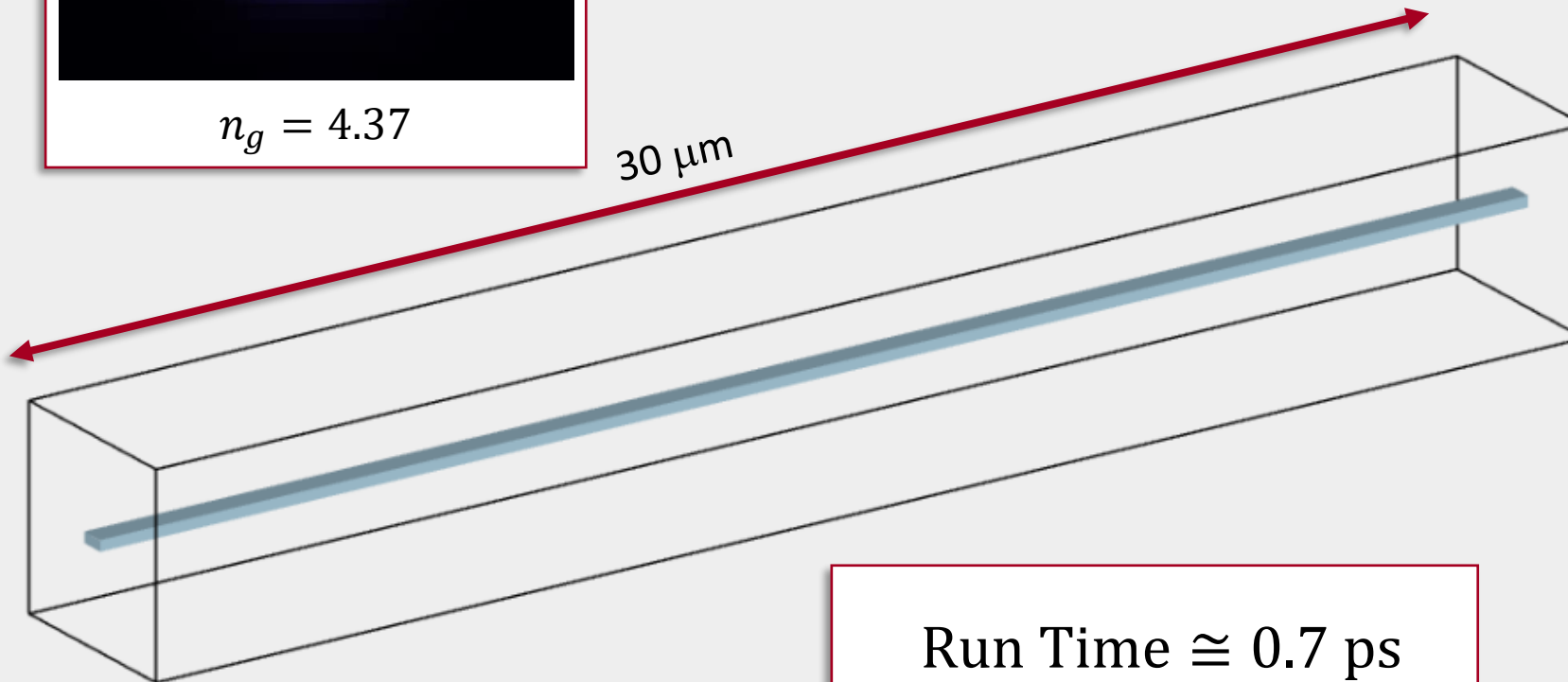
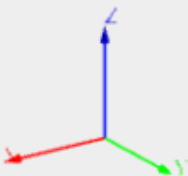
&gt; MONITORS



✓ SCRIPT OBJECTS



$$n_g = 4.37$$

30  $\mu\text{m}$ Run Time  $\cong$  0.7 ps

&gt; Visibility

Axes

Ruler

Simulation Domain



&gt; Sources(0/1)

&gt; Monitors(0/1)

✓ Structures(1/1)

waveguide



Simulation Parameter <

- STUDIES
- FDTD draft

Editor

- CONFIGURATION
  - Simulation Domain
  - Run Time
  - Grid Specification
  - Boundary and Symmetry
  - Shutoff Condition
  - Show More
- STRUCTURES
- SOURCES
  - mode\_source
- MONITORS
  - mode\_monitor
- SCRIPT OBJECTS

3D Chart 2D Chart Task Details Run

Validation pass

Visibility

- Axes
- Ruler
- Simulation Domain
- Sources 1/1
- Monitors 1/1
- Structures 1/1
  - waveguide

