

SimulationParameterK

STUDIES

FDTDdraft

modesolver_0draft

Editor

CONFIGURATION

Simulation Domain

Run Time

Grid Specification

Boundary and Symmetry

Shutoff Condition

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SCRIPT OBJECTS

3D Chart2D ChartTask DetailsRun

Validation pass

Mirror symmetry along y-direction

No mirror symmetry along x-direction

Mirror symmetry along z-direction

3D model of a periodic structure with a waveguide

Coordinate axes (x, y, z)

Visibility

Symmetry

Axes

Ruler

Simulation Domain

Sources(1/1)

Monitors(0/3)

Structures(162/162)

Script Objects(1/1)

...

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hole

Boundary and Symmetry

T

X

Boundary Condition ? Help

x

−

PML

▾

✎

+

PML

▾

✎

y

−

PML

▾

✎

+

PML

▾

✎

z

−

PML

▾

✎

+

PML

▾

✎

Symmetry ? Help

x

No symmetry

▾

y

No symmetry

▾

z

No symmetry

▾

Apply

Visibility

Axes

Ruler

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modesolver... success

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✓ SCRIPT OBJECTS

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Mode TE0

3D Chart

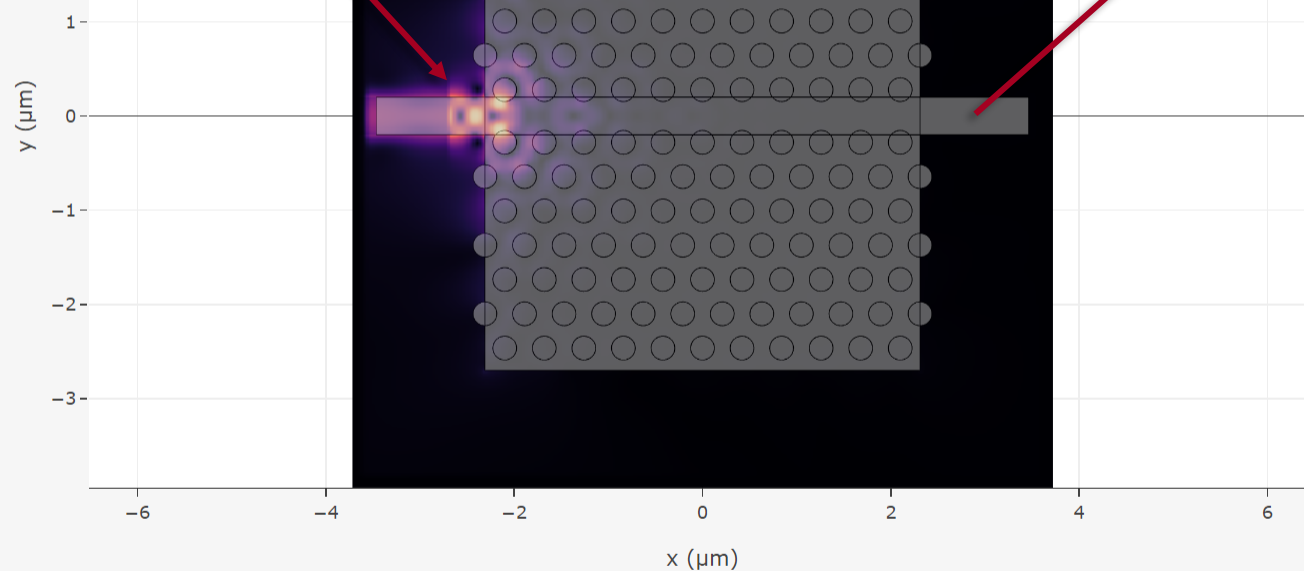
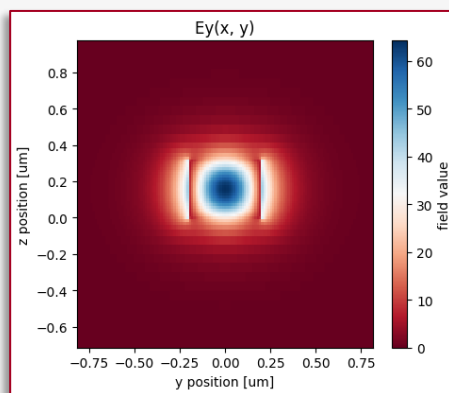
2D Chart


Post-Run Result

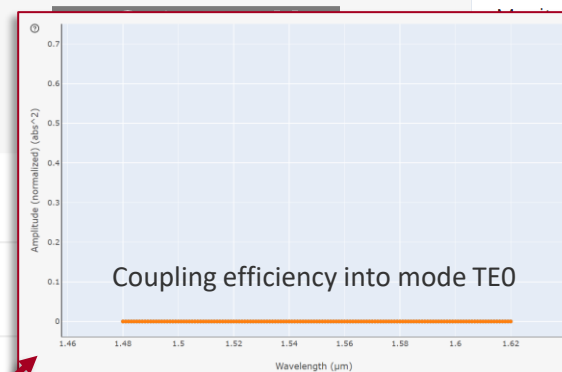
Task Details

 Edit

>| Result **Advanced**



 Download Data


Z Position (μm)

0 ✓



Frequency	Wavelength	THz
-----------	------------	-----

193.41449373420255 ✓



- ✓ Use equal axis aspect ratio

- ✓ Overlay with structure



Simulation Parameter K

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modesolver...

success

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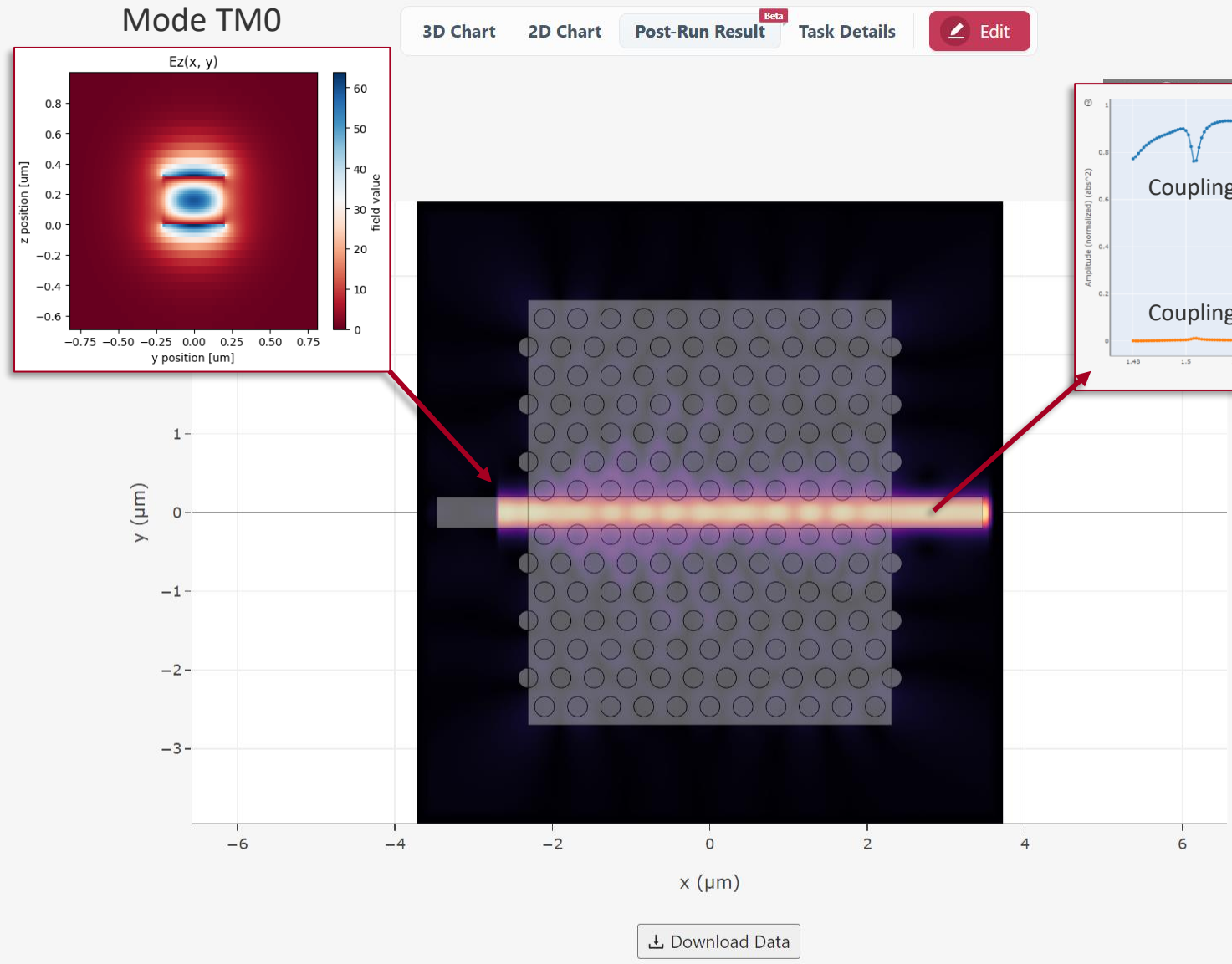
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Visibility

Axes

Ruler

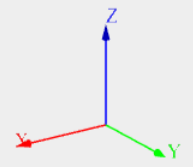
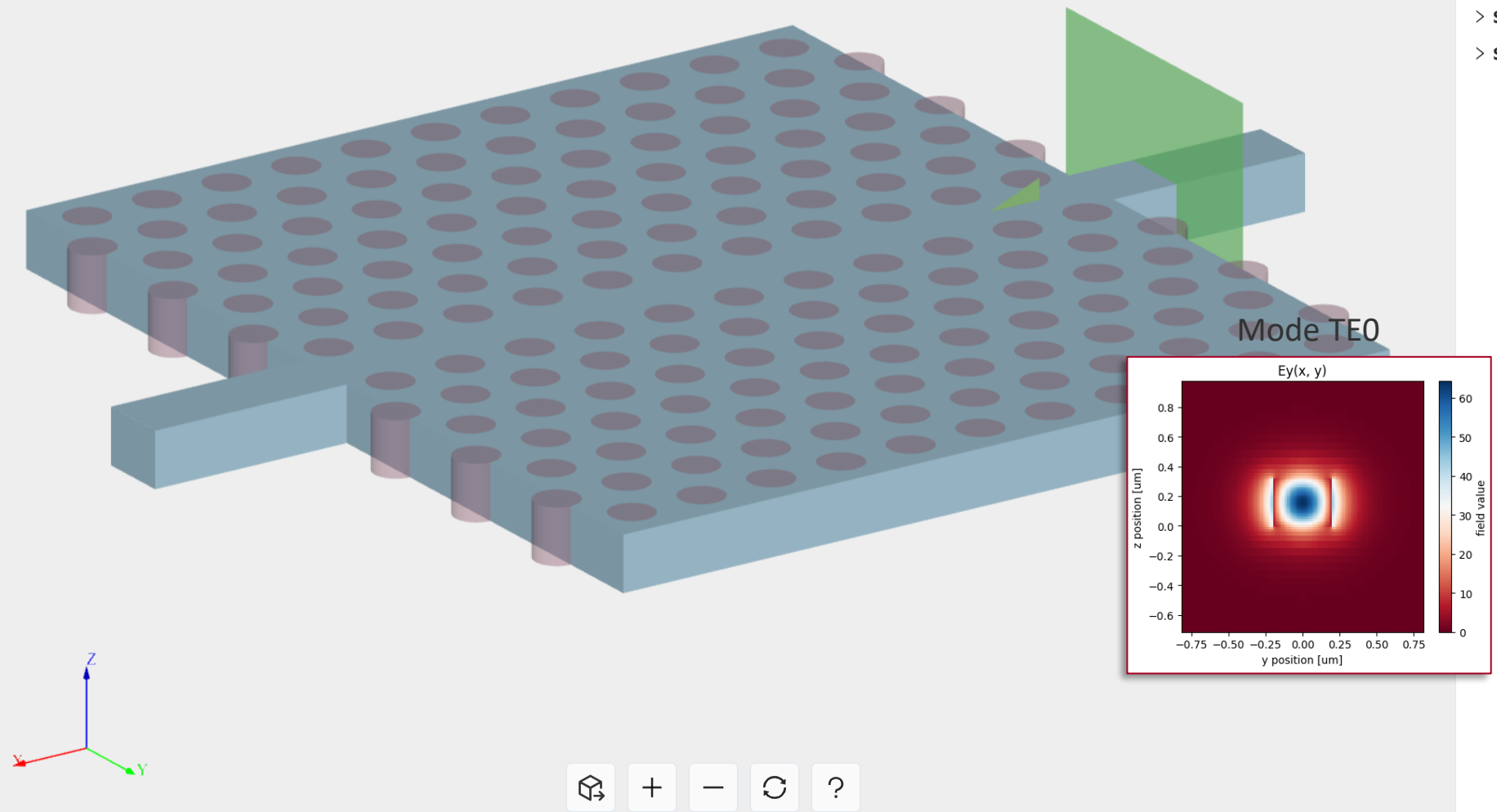
Simulation Domain

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Monitors(0/3)

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Script Objects(1/1)



+ -

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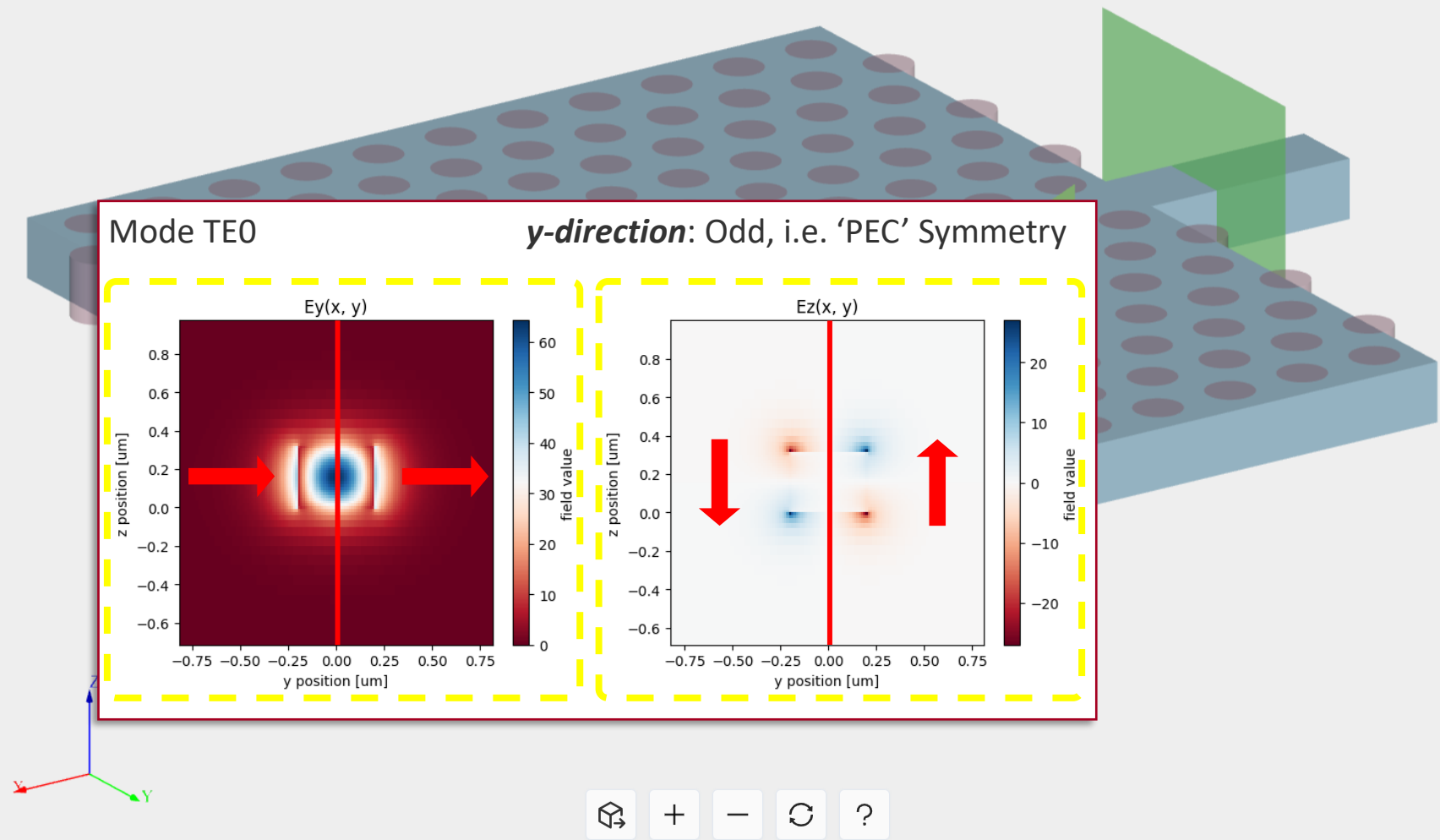
Simulation Domain

Sources(1/1)

Monitors(0/3)

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Script Objects(1/1)



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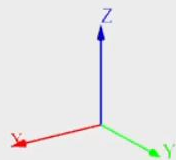
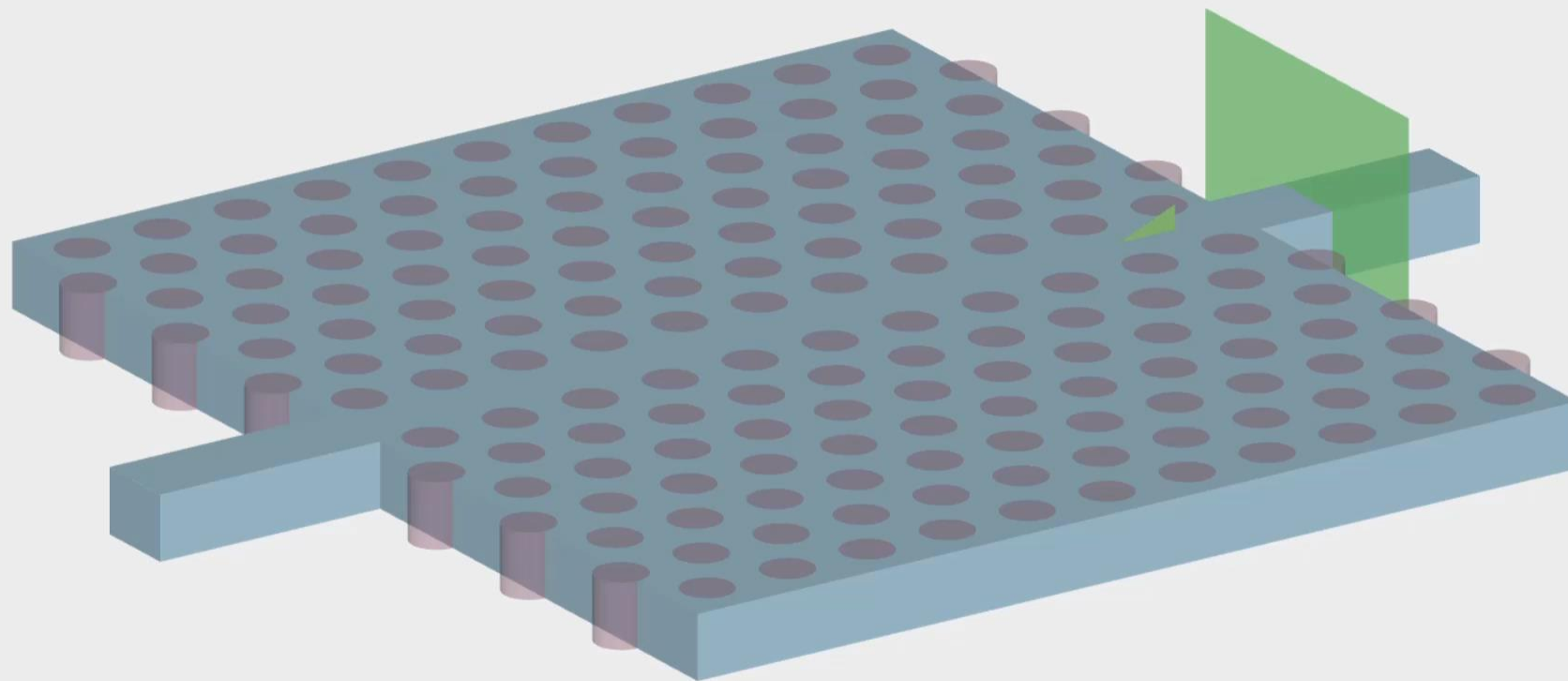
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Visibility

Axes

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phc_slab

waveguide

hole_0

hole_1

hole_2

hole_3

hole_4

hole_5

hole_6

hole_7

hole_8

hole_9

hole_10

hole_11

hole_12

hole_13

hole_14

hole_15

hole_16

hole_17

hole_18

hole_19

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hole

3D Chart 2D Chart Task Details

Run

Validation pass

Mode TE0

z-direction: Even, i.e. 'PMC' Symmetry

Hy(x, y)

Hz(x, y)

field value

field value

z position [um]

y position [um]

z position [um]

y position [um]

+

-

↺

?

Visibility

Axes

Ruler

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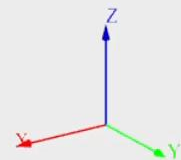
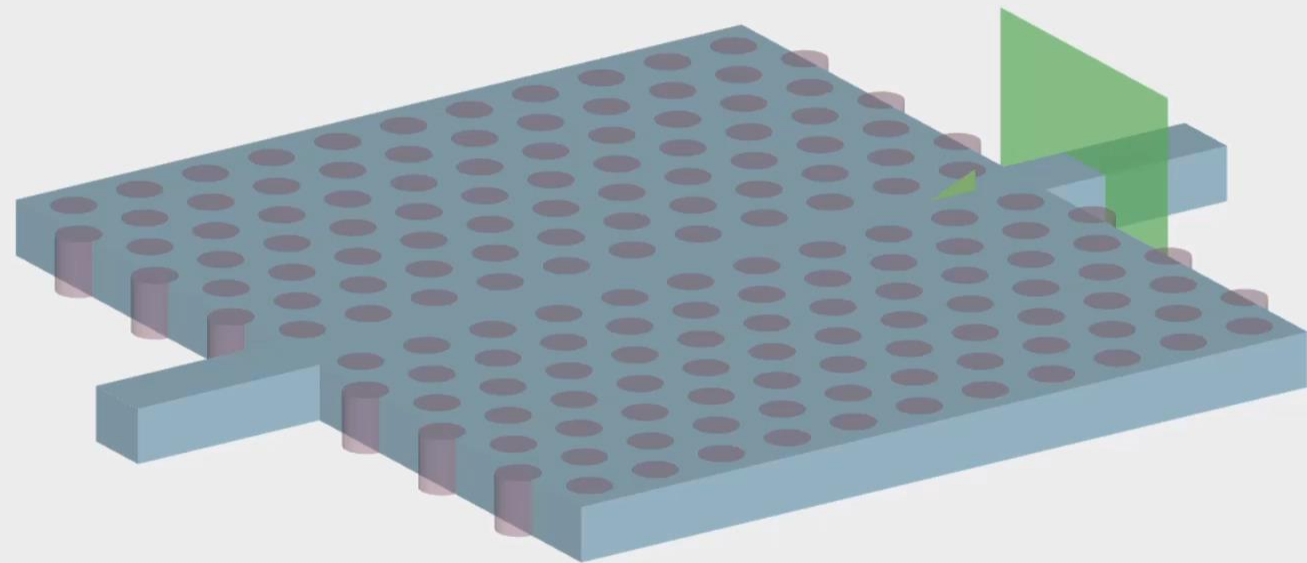
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3D Chart

2D Chart

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waveguide

hole_0

hole_1

hole_2

hole_3

hole_4

hole_5

hole_6

hole_7

hole_8

hole_9

hole_10



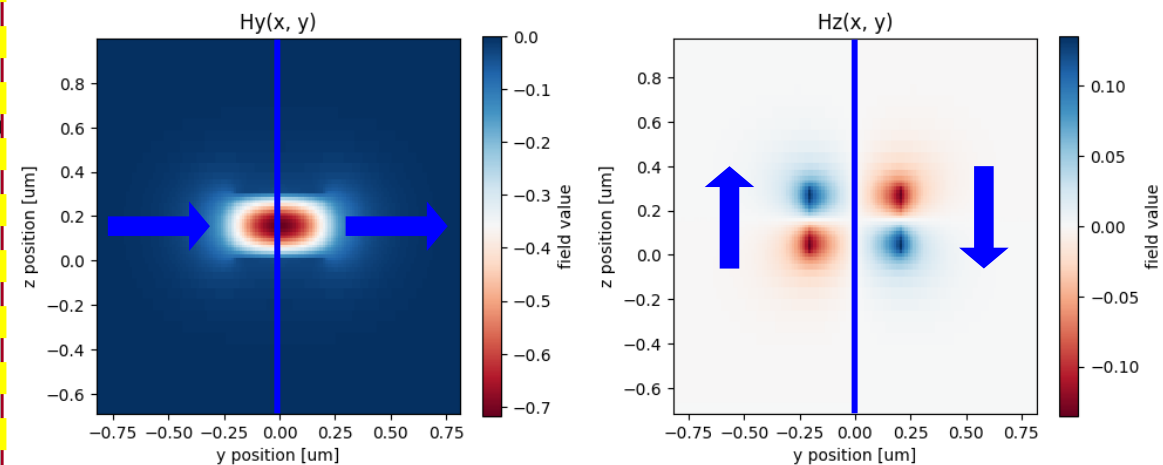


Validation pass

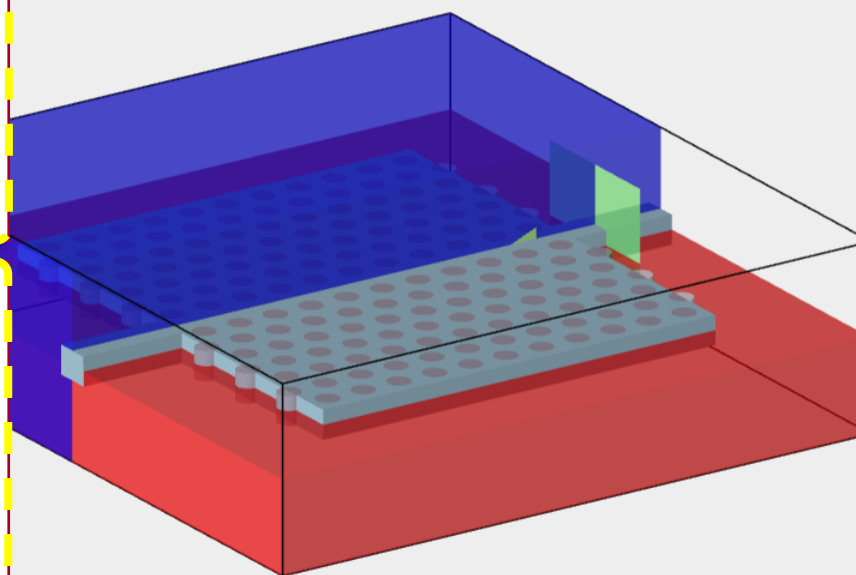
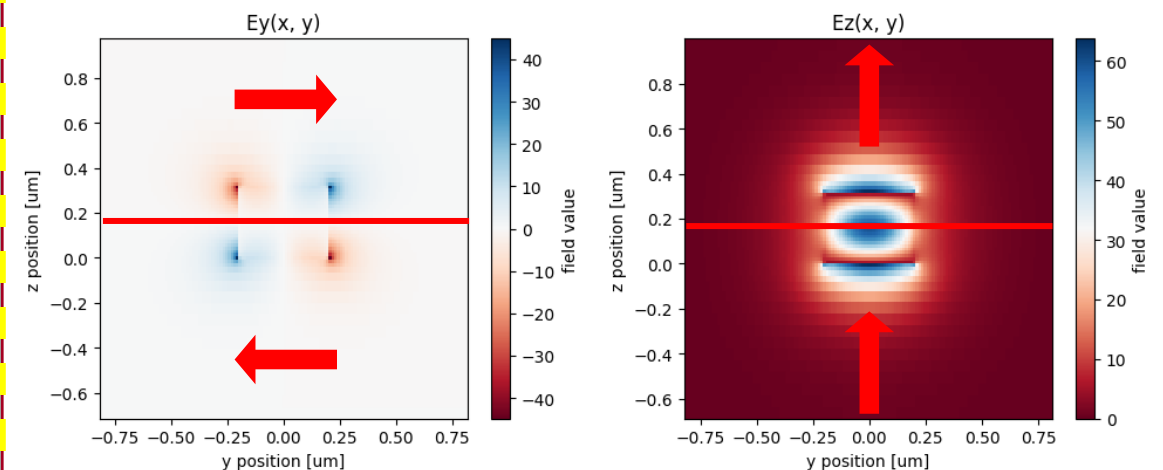
Visibility

- Symmetry
- Axes
- Ruler
- Simulation Domain
- > Sources (1/1)
- > Monitors (0/3)
- ✓ Structures (162/162)
 - phc_slab
 - waveguide
 - hole_0
 - hole_1
 - hole_2
 - hole_3
 - hole_4
 - hole_5
 - hole_6
 - hole_7
 - hole_8
 - hole_9
 - hole_10
 - hole_11
 - hole_12
 - hole_13
 - hole_14
 - hole_15
 - hole_16
 - hole_17
 - hole_18

Mode TM0

y-direction: Even, i.e. 'PMC' Symmetry

Mode TM0

z-direction: Odd, i.e. 'PEC' Symmetry

Simulation Parameter K

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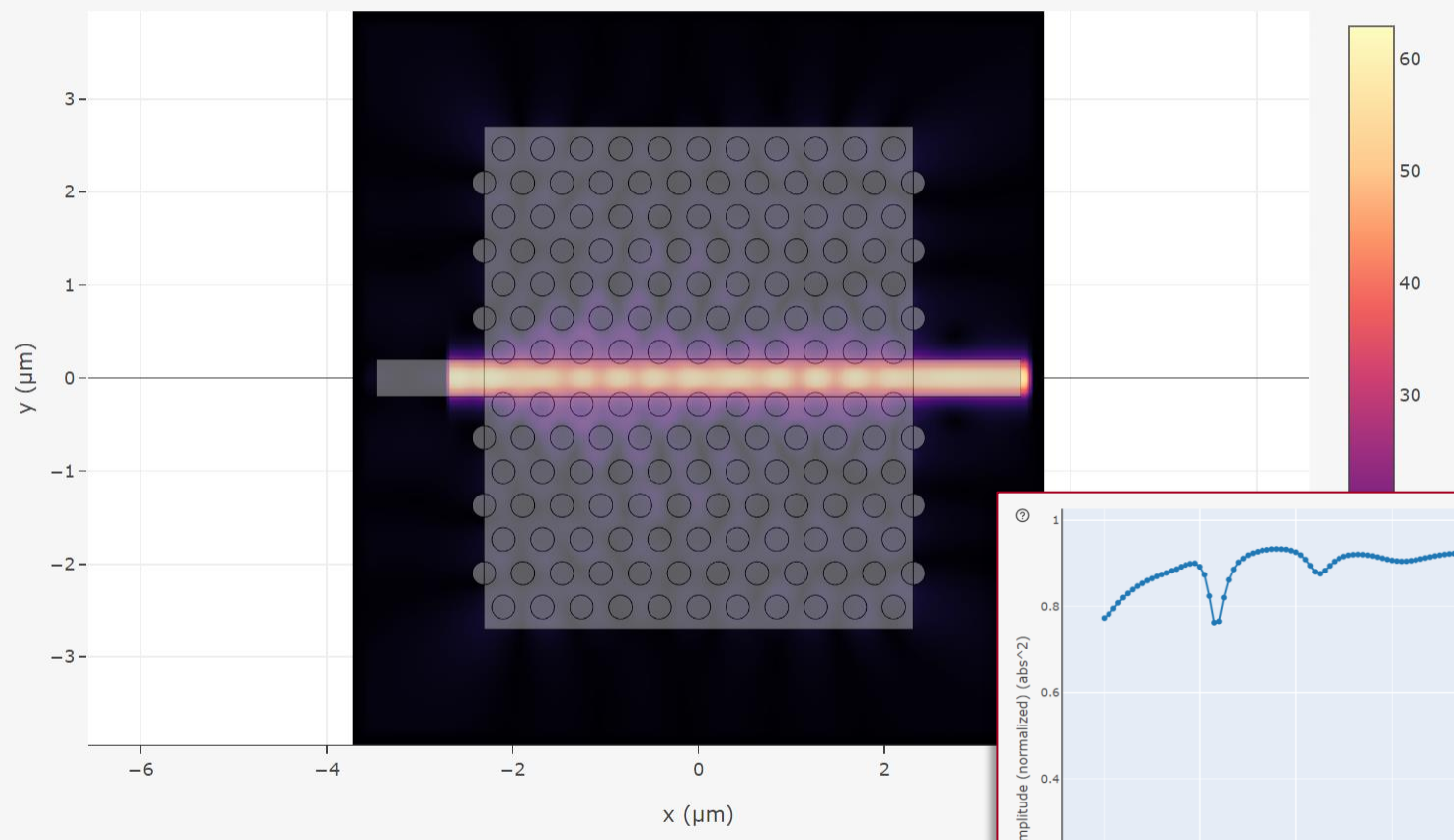
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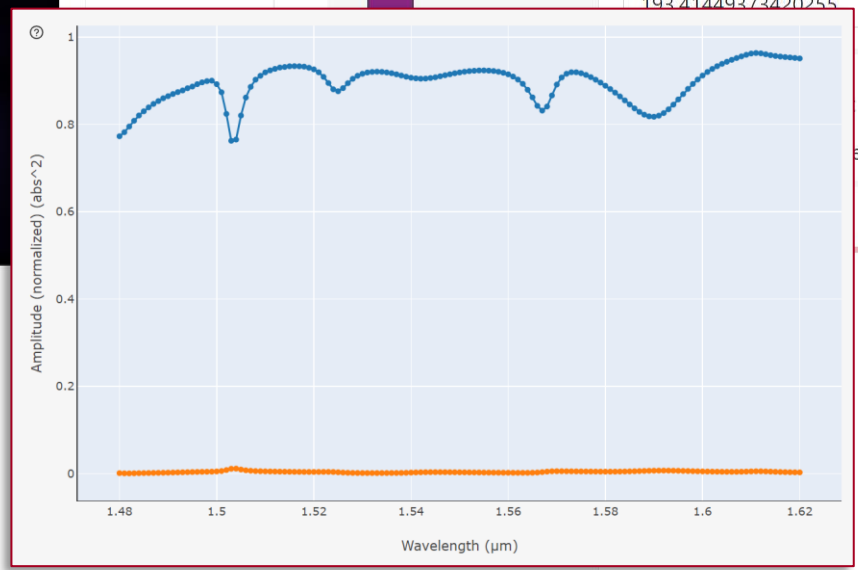
SCRIPT OBJECTS

hole

3D Chart 2D Chart **Post-Run Result** Task Details [Edit](#)



Download Data



Result **Advanced**

Monitor Name

field_xy

Type: FieldMonitor

Field Component

E

Value to Plot

Magnitude (abs)

Z Position (μm)

0

Frequency Wavelength THz

193.41449373420255

Simulation Parameter IK

STUDIES

FDTD success

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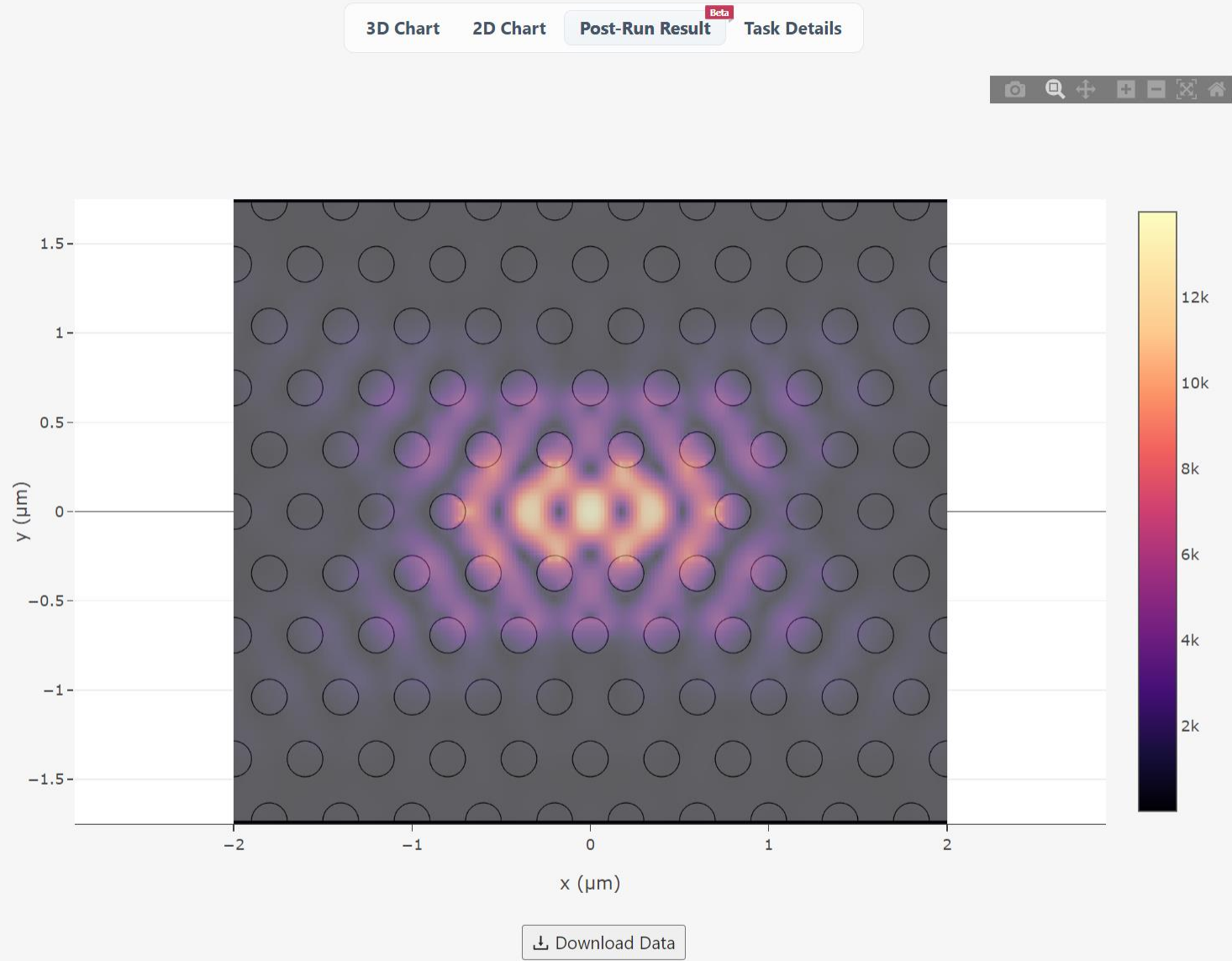
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generate_cavity



Result Advanced

Monitor Name

generate_cavity_final_time

Type: FieldTimeMonitor

Field Component

E

Z Position (μm)

0

Value to Plot

Magnitude (abs)

Time (ps)

6.250011419071422

Use equal axis aspect ratio

Overlay with structure

Color Scale