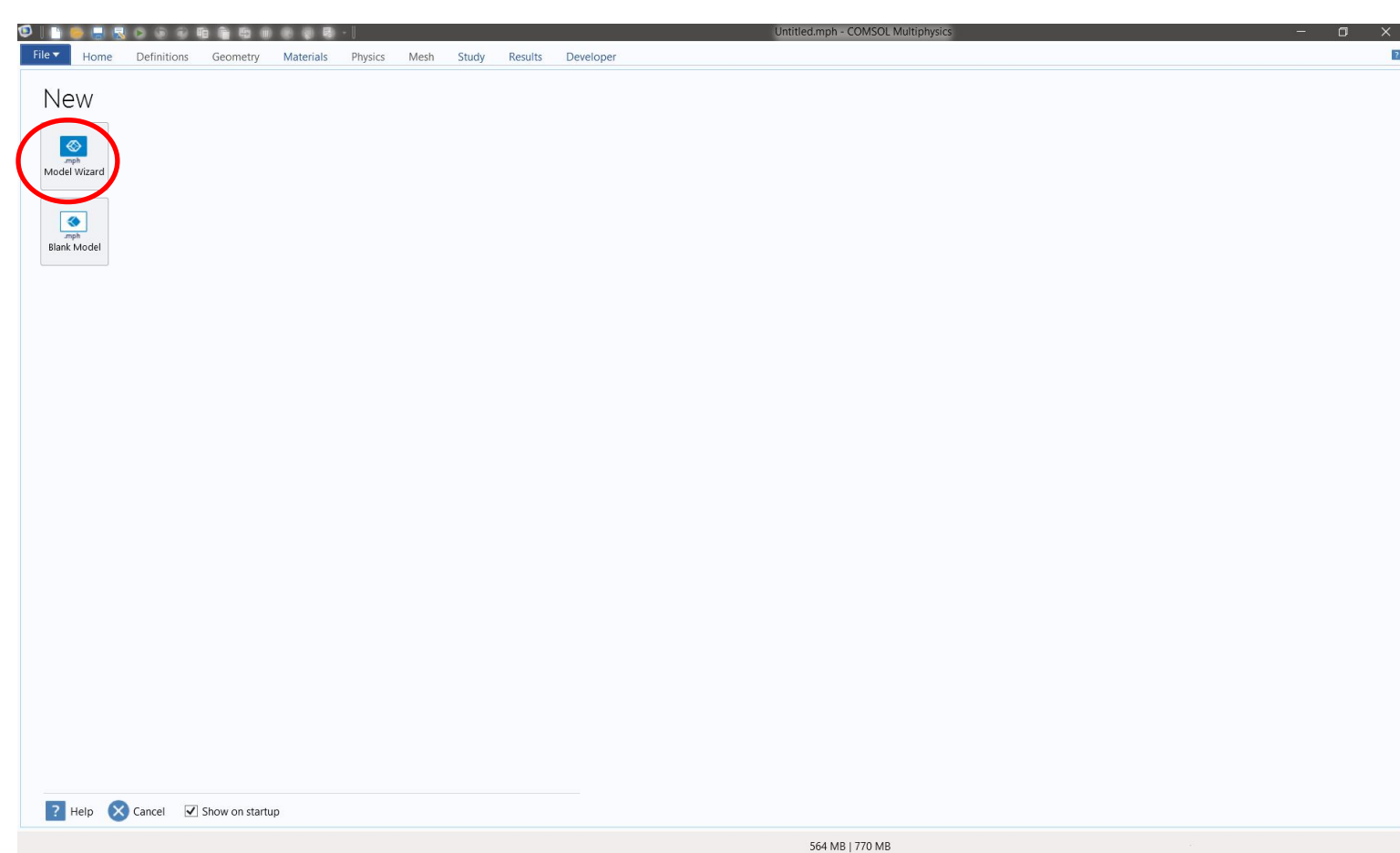


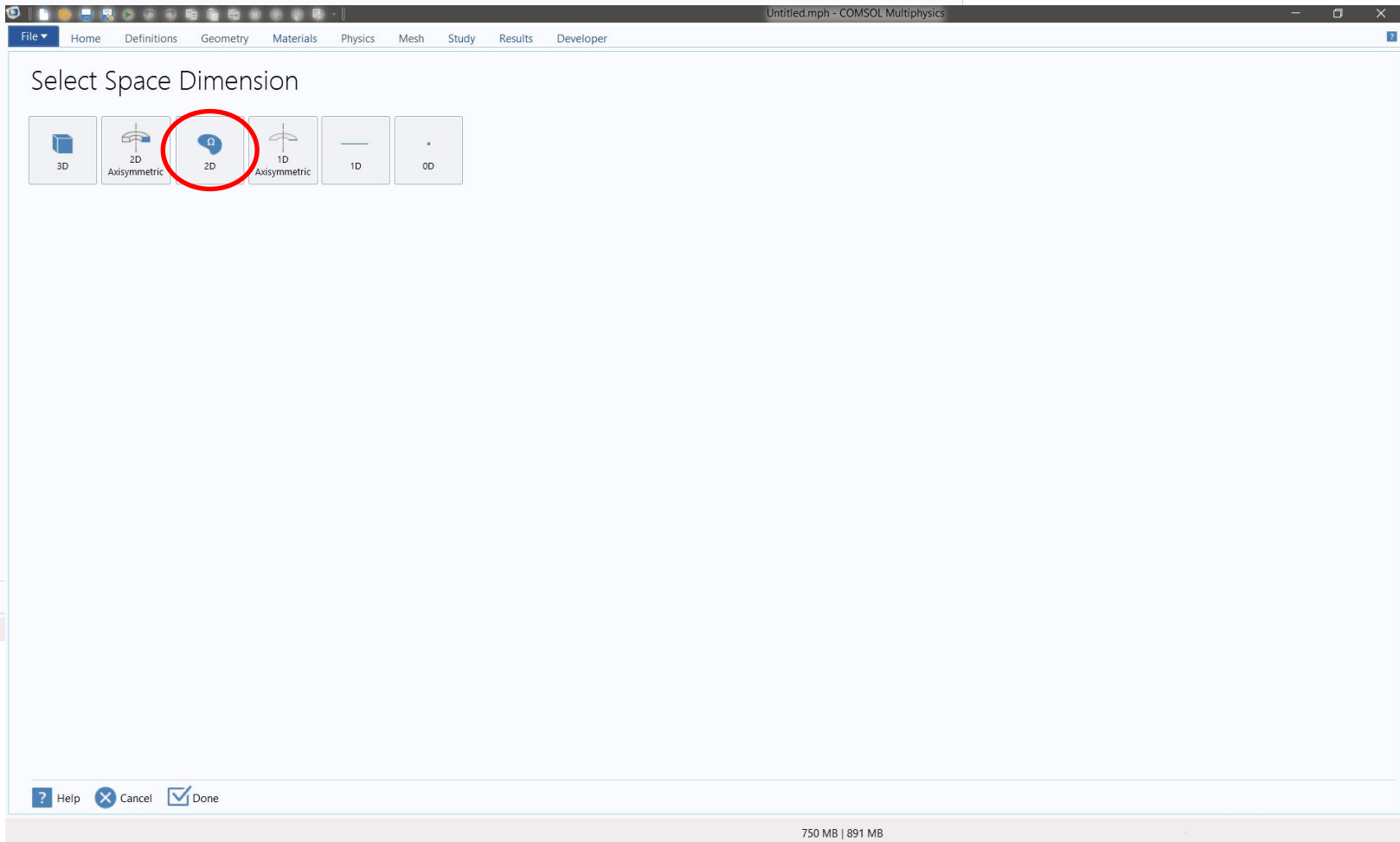
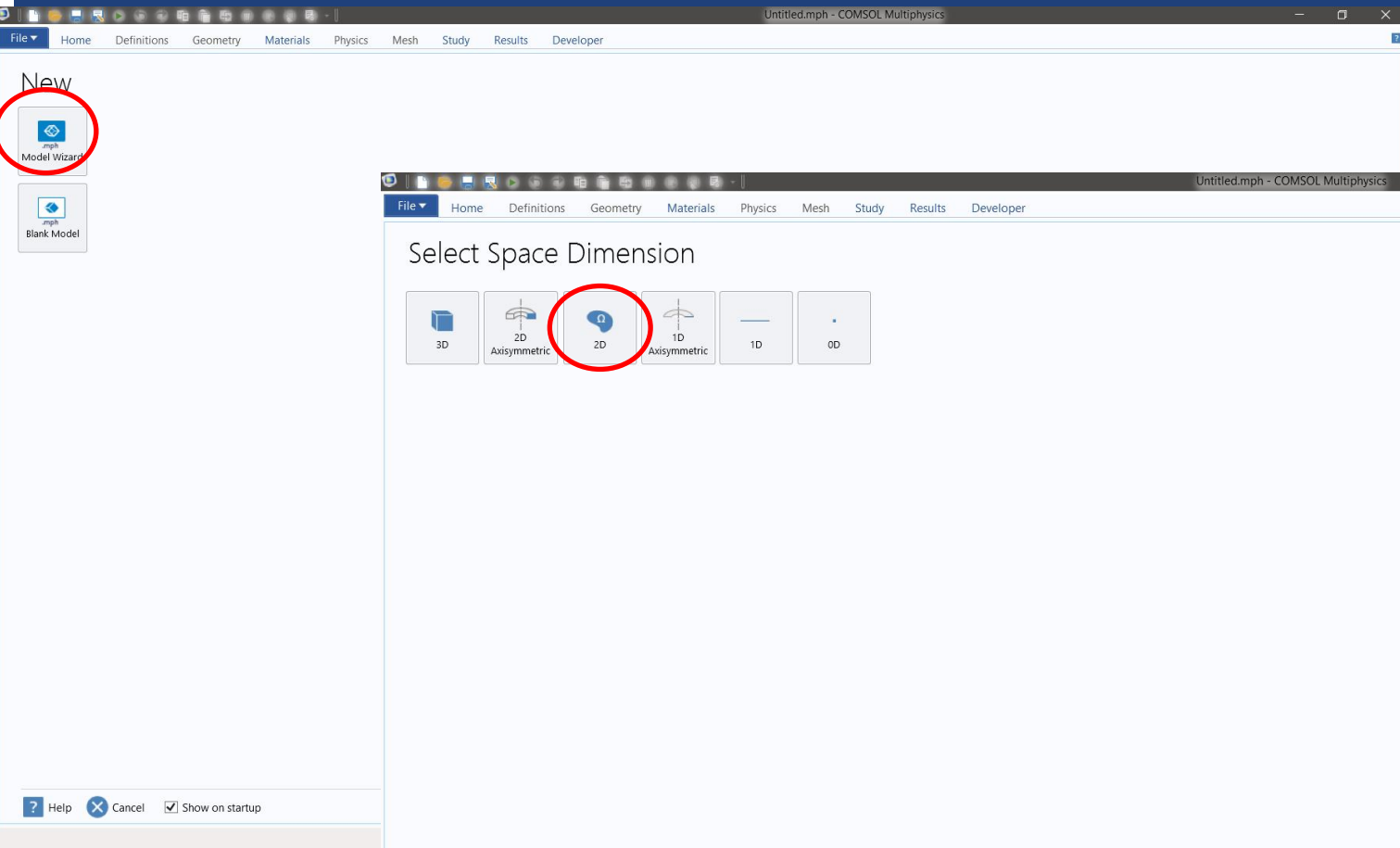


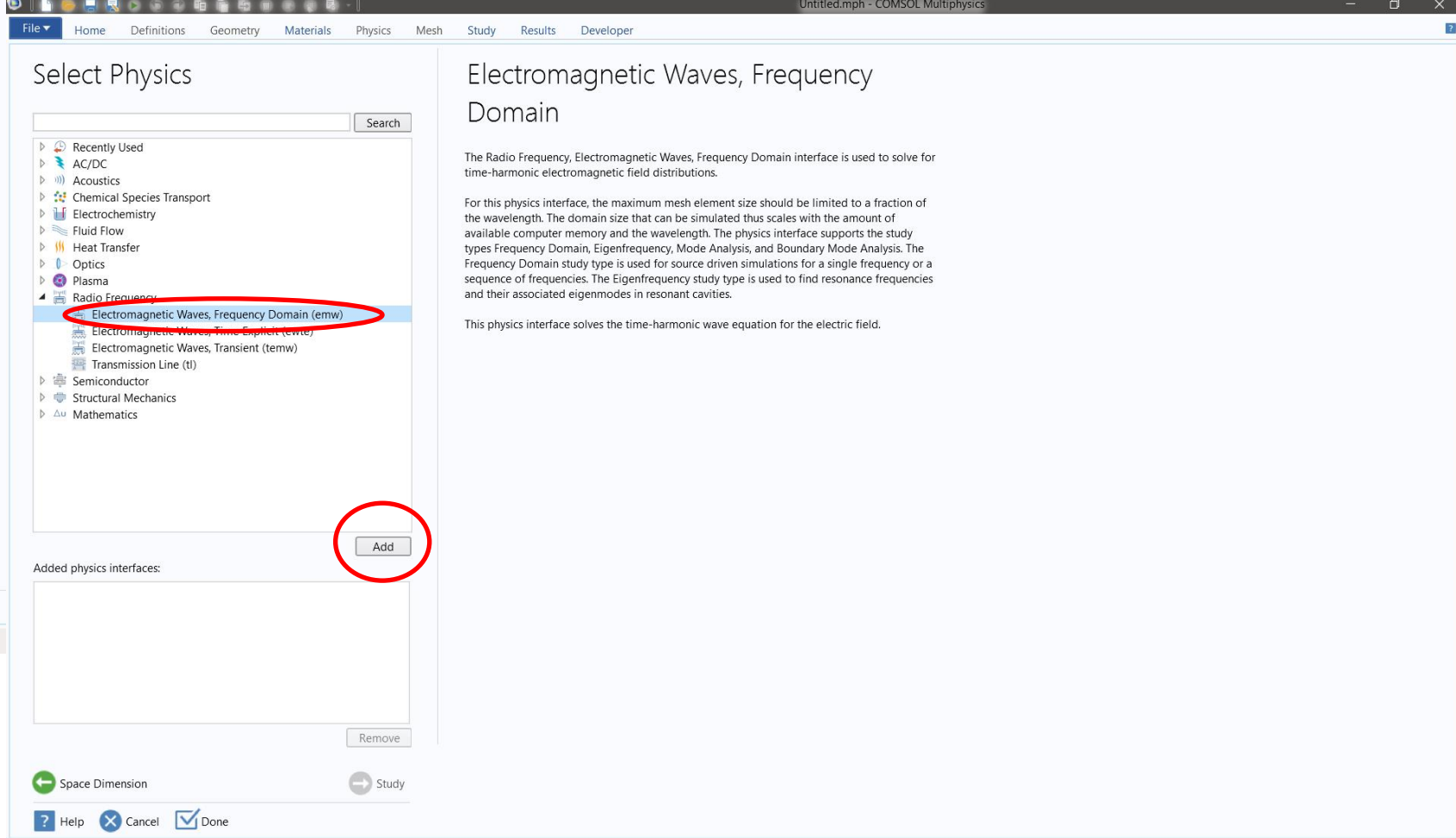
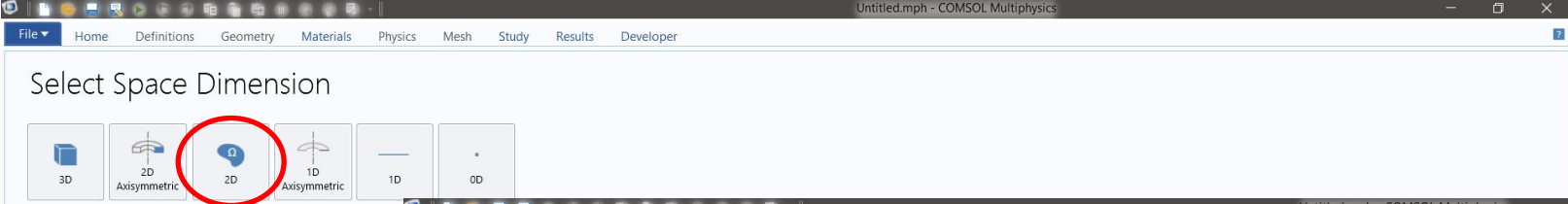
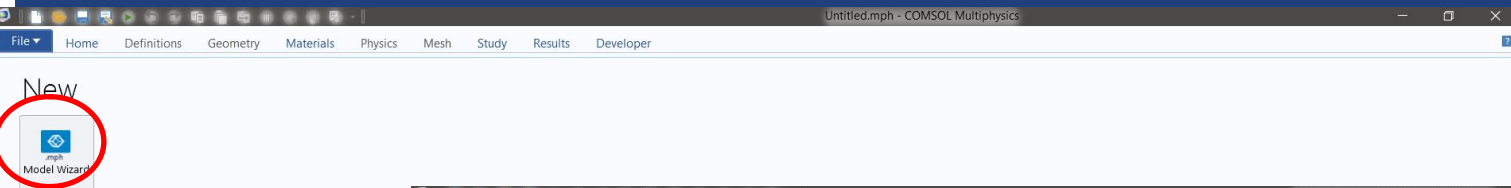
P&S COMSOL® Design Tool

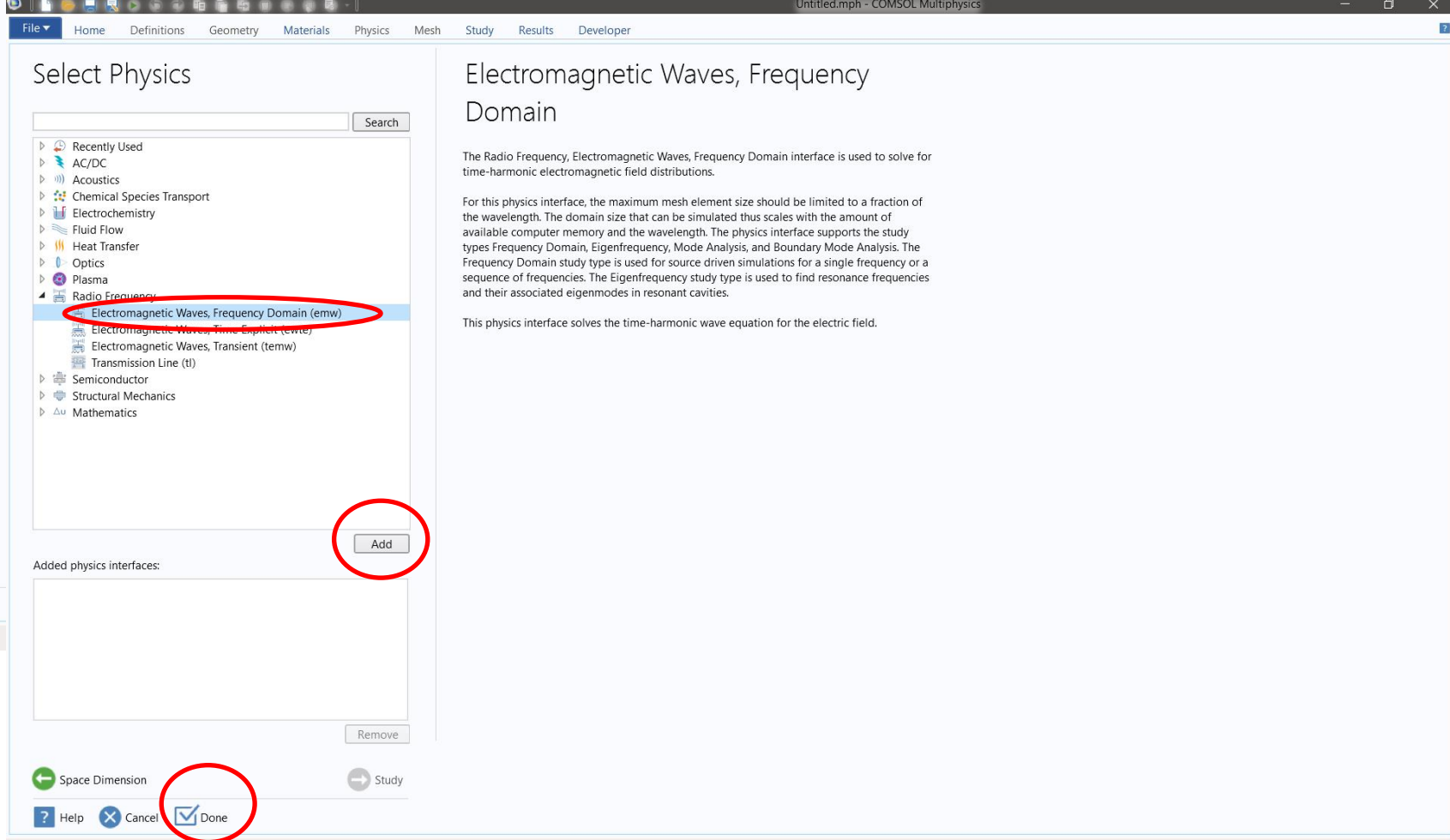
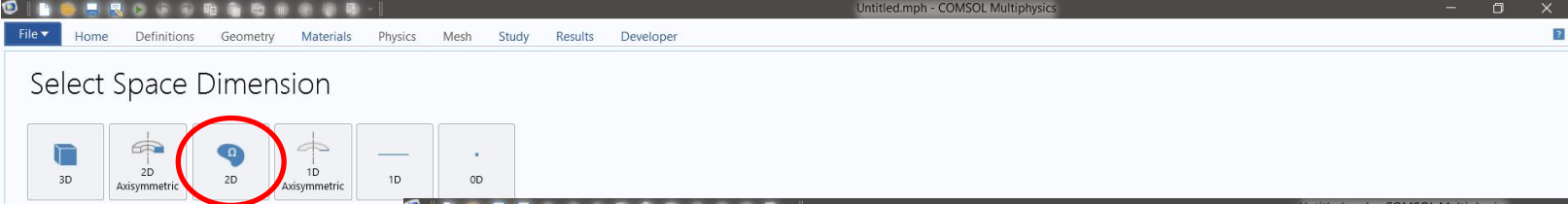
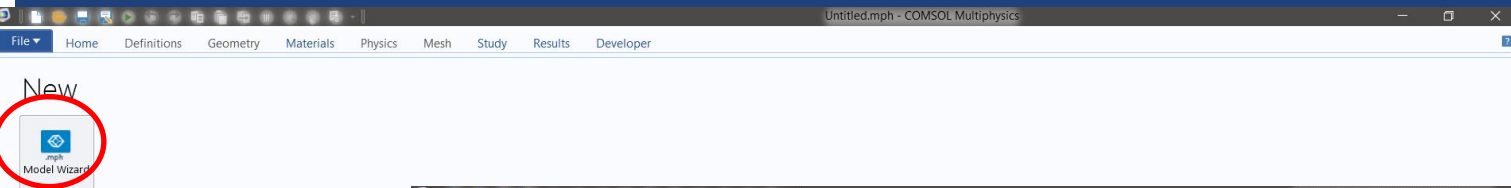
Tutorial 1: Remote Access & Comsol Enviroment

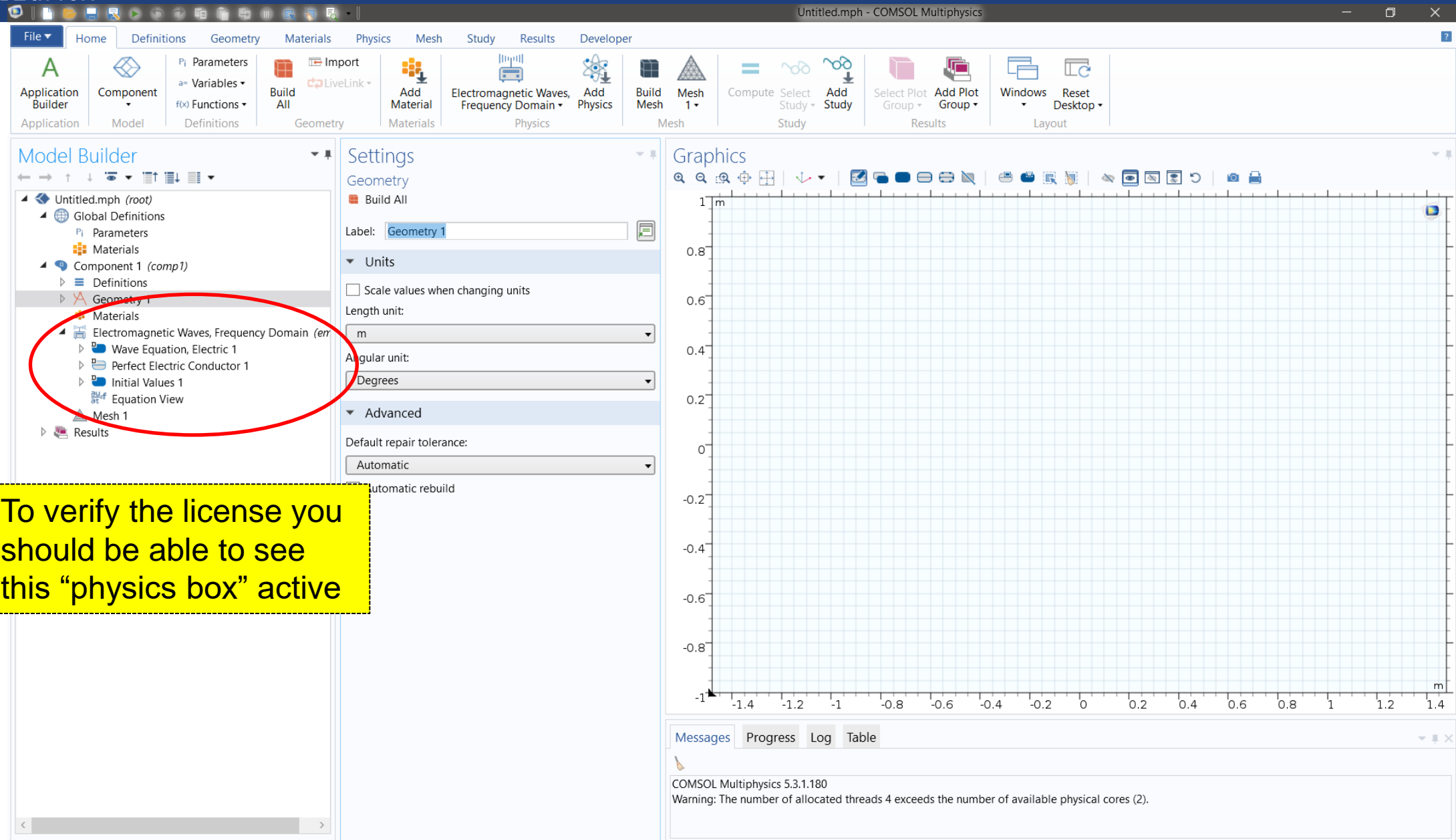
Manuel Kohli, Raphael Schwanninger











File Home Definitions Geometry Materials Physics Mesh Study Results Developer

Application Builder Component Parameters Variables Functions Import Build All LiveLink Add Material Electromagnetic Waves, Frequency Domain Add Physics Build Mesh Mesh Compute Select Study Add Study Select Plot Group Add Plot Group Windows Reset Desktop Layout

Model Builder

- Untitled.mph (root)
 - Global Definitions
 - Parameters
 - Materials
 - Component 1 (comp1)
 - Definitions
 - Geometry 1
 - Materials
 - Electromagnetic Waves, Frequency Domain (en)
 - Wave Equation, Electric 1
 - Perfect Electric Conductor 1
 - Initial Values 1
 - Equation View
 - Mesh 1
 - Results

Settings

Geometry

Build All

Label: Geometry 1

Units

Scale values when changing units

Length unit: m

Angular unit: Degrees

Advanced

Default repair tolerance: Automatic

Automatic rebuild

Graphics

Messages Progress Log Table

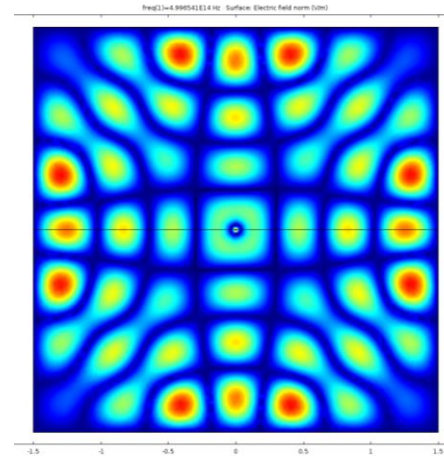
COMSOL Multiphysics 5.3.1.180
Warning: The number of allocated threads 4 exceeds the number of available physical cores (2).

869 MB | 976 MB

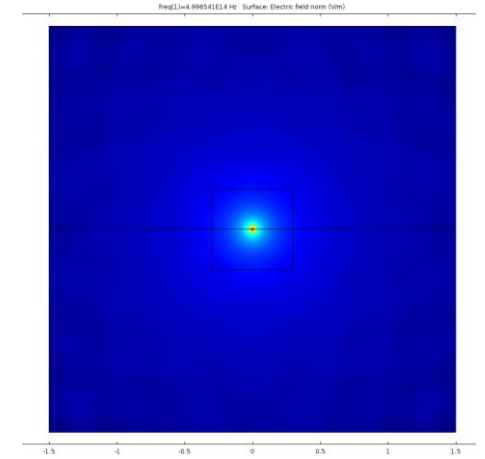
To verify the license you should be able to see this “physics box” active

COMSOL: Boundary Condition

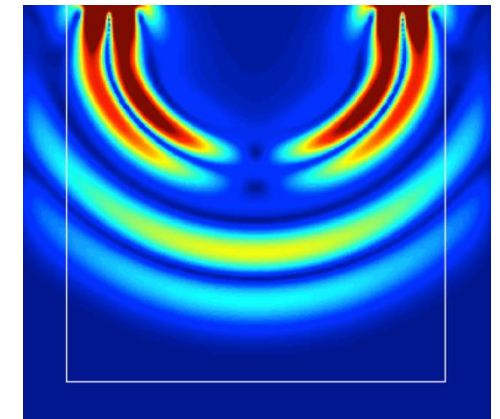
- Purpose of boundary conditions → define simulation domain
- Types of boundary conditions in COMSOL
 - Perfect Electric Conductor (PEC)
 - Perfect Magnetic Conductor (PMC)
 - Scattering Boundary Condition
 - Periodic Boundaries Condition (PBC)
 - Perfectly Matched Layer (PML)



PEC Boundaries



Scattering Boundaries



PML Boundaries