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#This code was written by Ben Wilson with the supervison of Paul Ledger
#at the ZCCE, Swansea University
#Powered by NETGEN/NGSolve
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#User Inputs

#Geometry
Geometry = "sphere.geo"
#(string) Name of the .geo file to be used in the frequency sweep i.e.
# "sphere.geo"


#Scaling to be used in the sweep in meters
alpha = 0.01
#(float) scaling to be applied to the .geo file i.e. if you have defined
#a sphere of unit radius in a .geo file   alpha = 0.01   would simulate a
#sphere with a radius of 0.01m ( or 1cm)


#About the mesh
#How fine should the mesh be
MeshSize = 1
#(int 1-5) this defines how fine the mesh should be for regions that do
#not have maxh values defined for them in the .geo file (1=verycoarse,
#5=veryfine)


#The order of the elements in the mesh
Order = 0
#(int) this defines the order of each of the elements in the mesh


#About the Frequency sweep (frequencies are in radians per second)
#Minimum frequency (Powers of 10 i.e Start = 2 => 10**2)
Start = 1
#(float)
#Maximum frequency (Powers of 10 i.e Start = 8 => 10**8)
Finish = 8
#(float)
#Number of points in the freqeuncy sweep
Points = 81
#(int) the number of logarithmically spaced points in the sweep


#I only require a single frequency
Single = False
#(boolean) True if single frequency is required
Omega = 133.5
#(float) the frequency to be solved if Single = True

#POD
#I want to use POD in the frequency sweep
Pod = True
#(boolean) True if POD is to be used, the number of snapshots can be
#edited in in the Settings.py file

#Plot the POD points
PlotPod = True
#(boolean) do you want to plot the snapshots (This requires additional
#calculations and will slow down sweep by around 2% for default settings)

#MultiProcessing
MultiProcessing = True
#(boolean) #I have multiple cores at my disposal and have enough spare RAM
# to run the frequency sweep in parrallel (Edit the number of cores to be
#used in the Settings.py file)



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