

*#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 frequency 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*

*#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)*