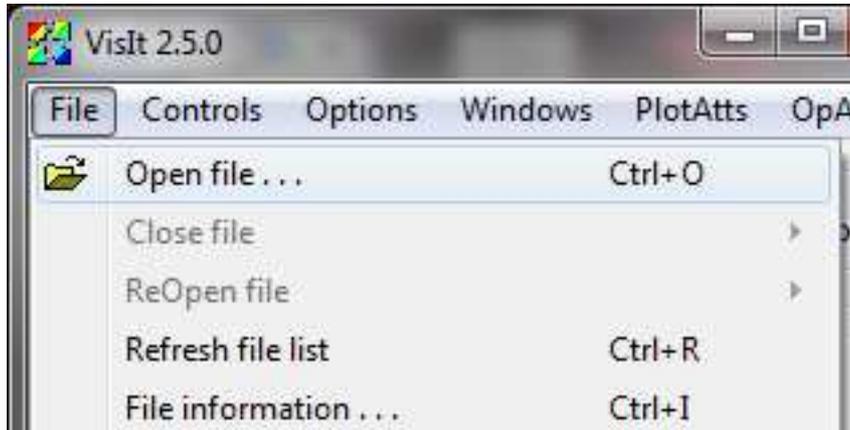


# VISIT VISUALIZATION

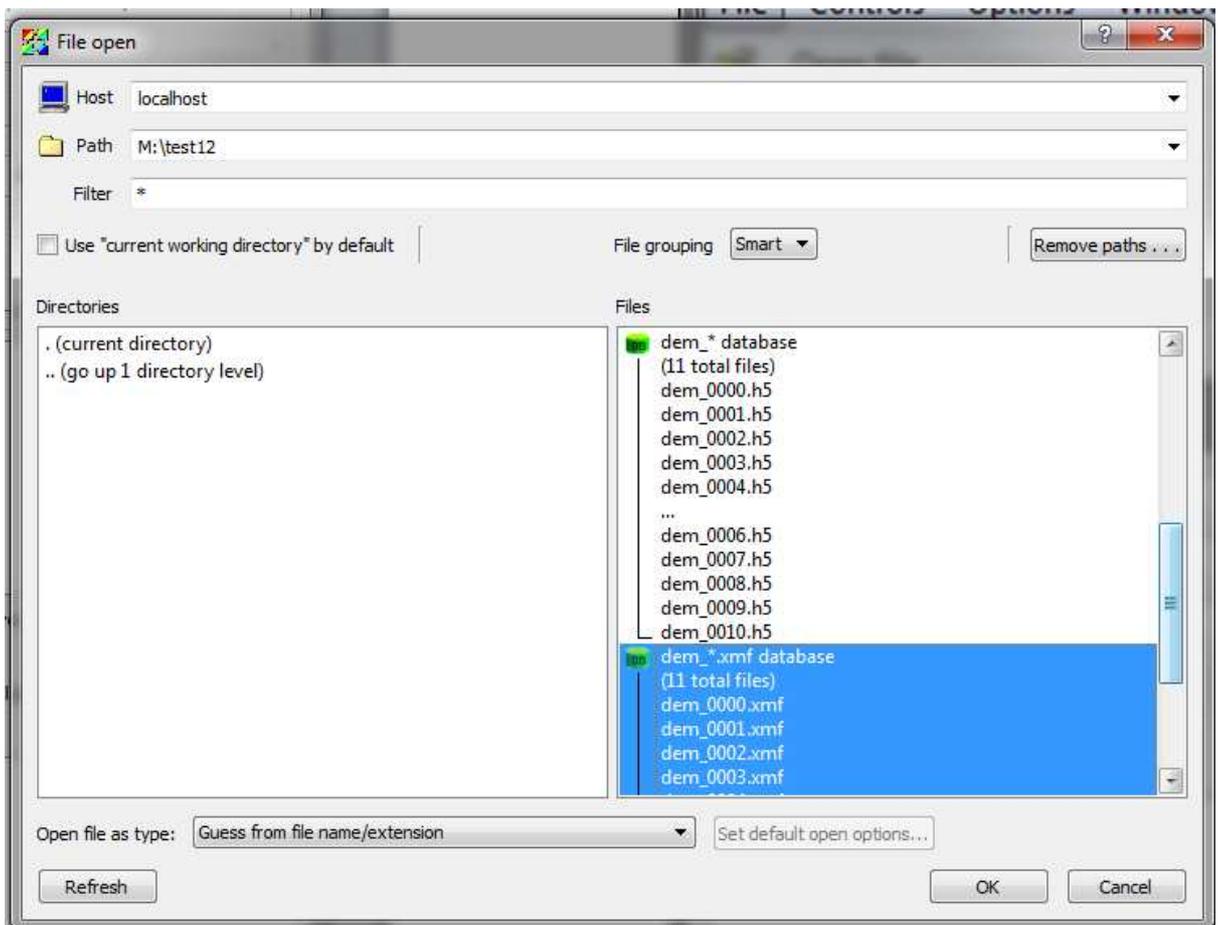
## CREATE NEW VISUALLATION

### Open the xmf file

File → Open file

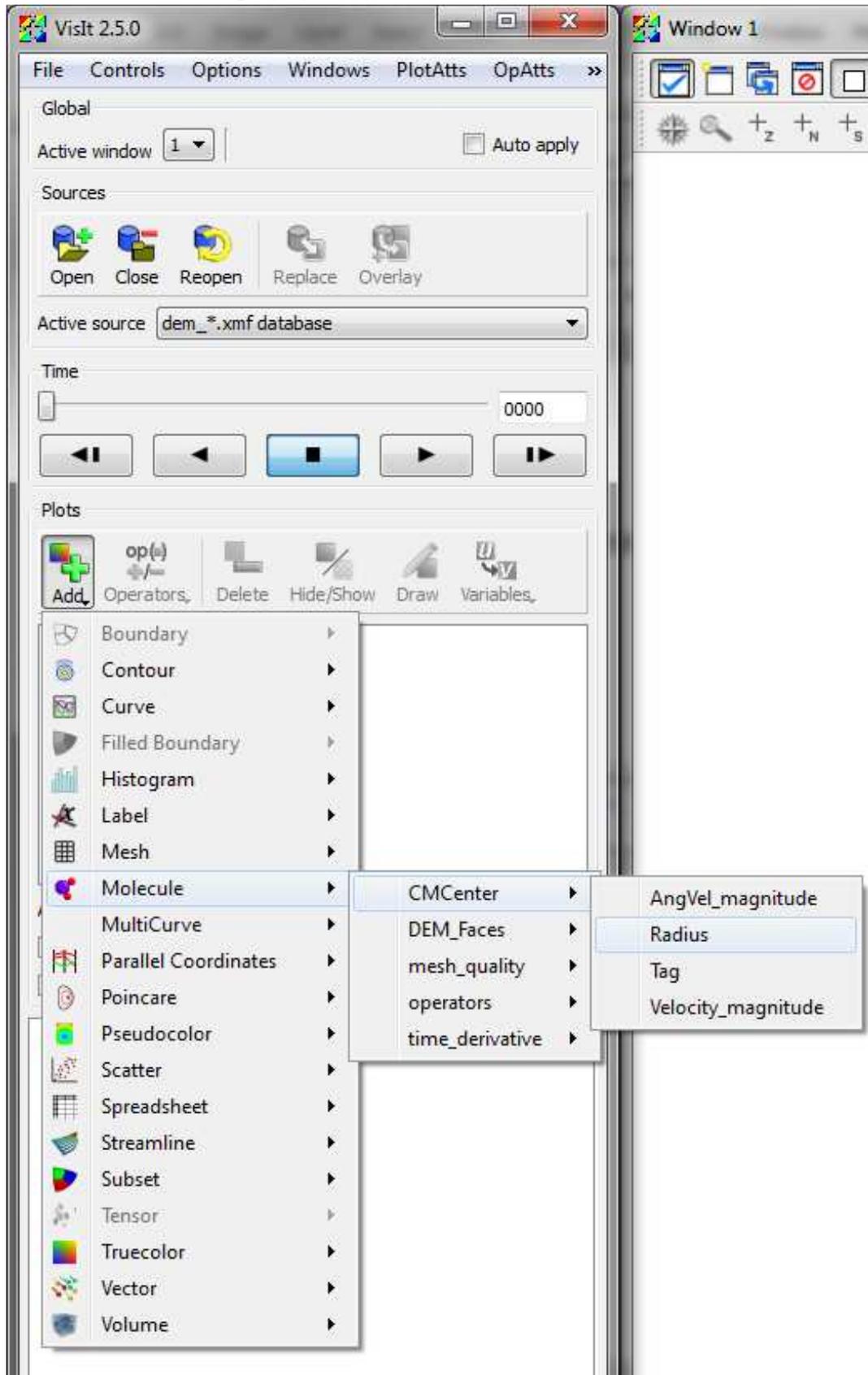


→ Browse file

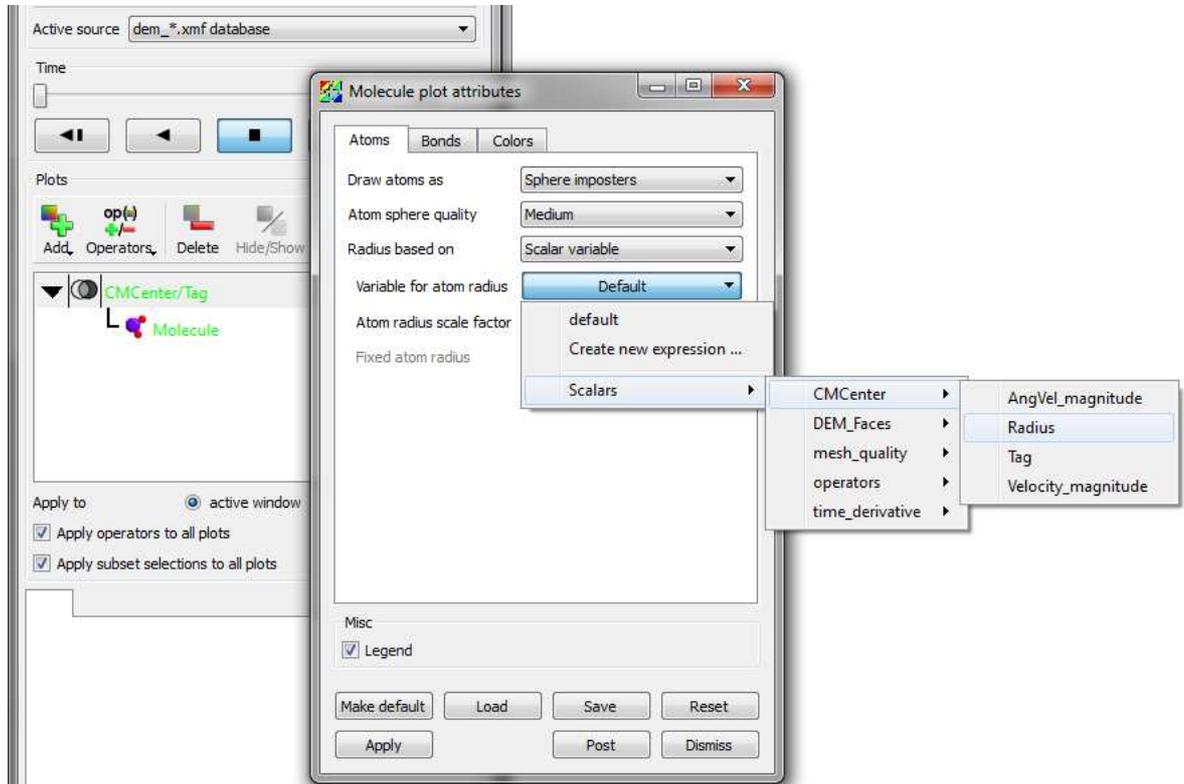


### Create filter for sphere

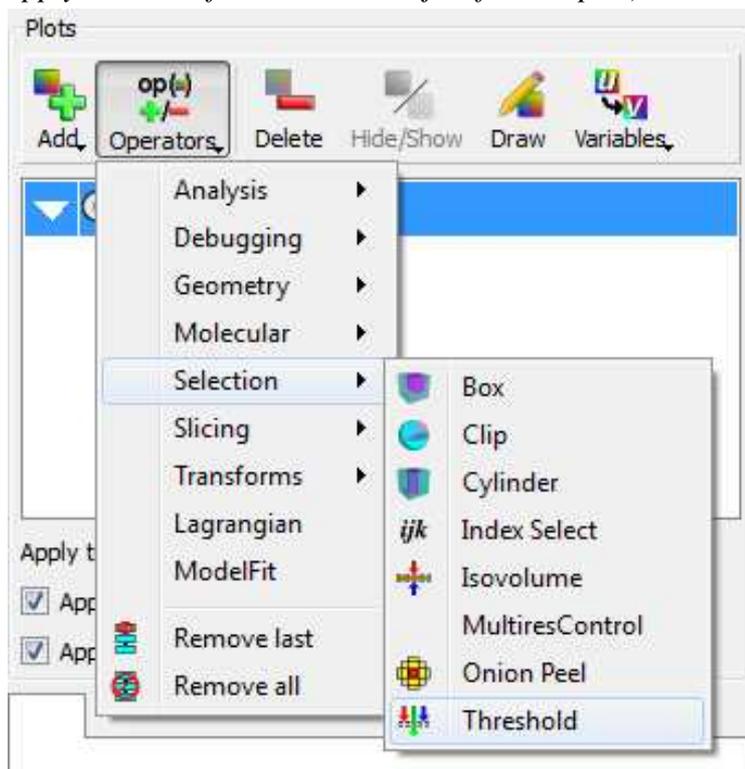
Plots → Add → Molecule → CMCenter → Tag (or Radius, velocity... depends on value should be display by colour)



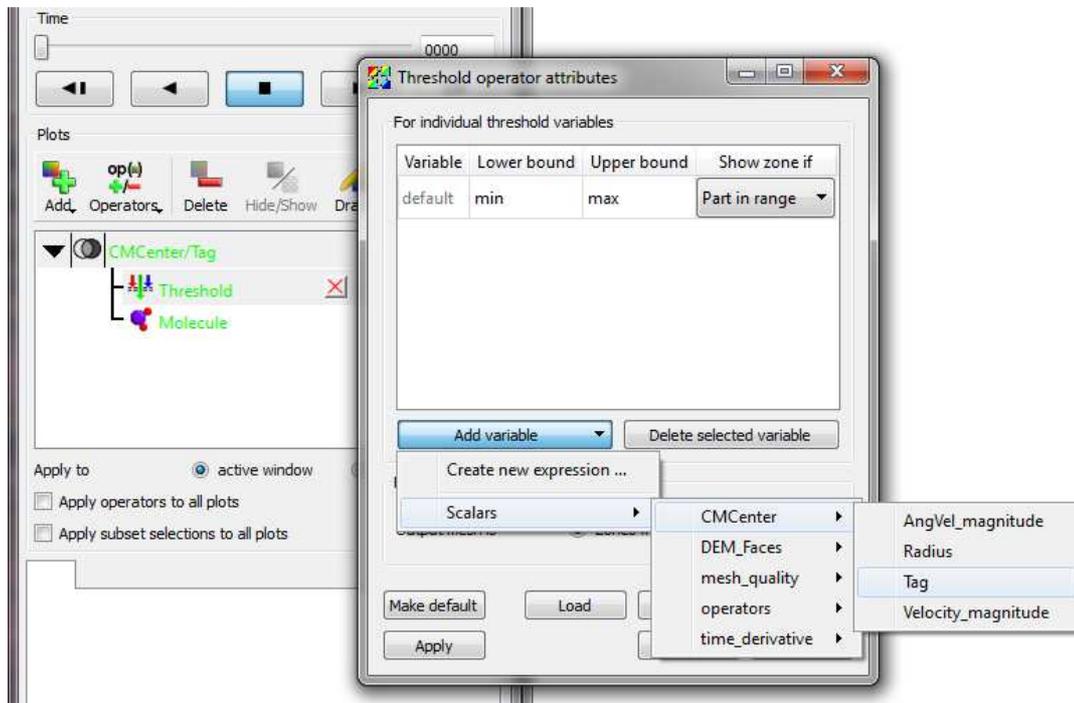
Double click on layer → Molecule plot attributes → Atoms  
 Draw atoms as sphere imposters (to have good image with low quality)  
 Radius based on Scalar variable  
 Variable for atom radius → Scalar → CMCenter → Radius



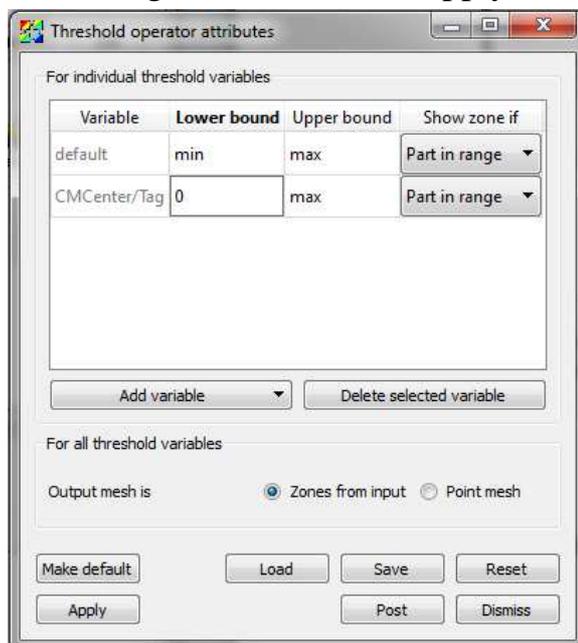
Operators → Selections → Threshold (to create a selection criterion, deselect apply to boxes if the criterion is just for this plot)



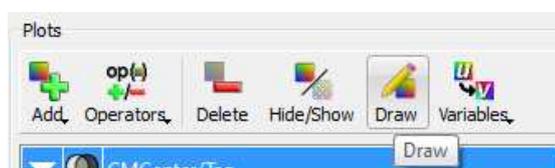
Double click on Threshold → Threshold operator attributes → add variable → Scalar → CMCenter → Tag (or Radius, Velocity ... depends on selection criterion)



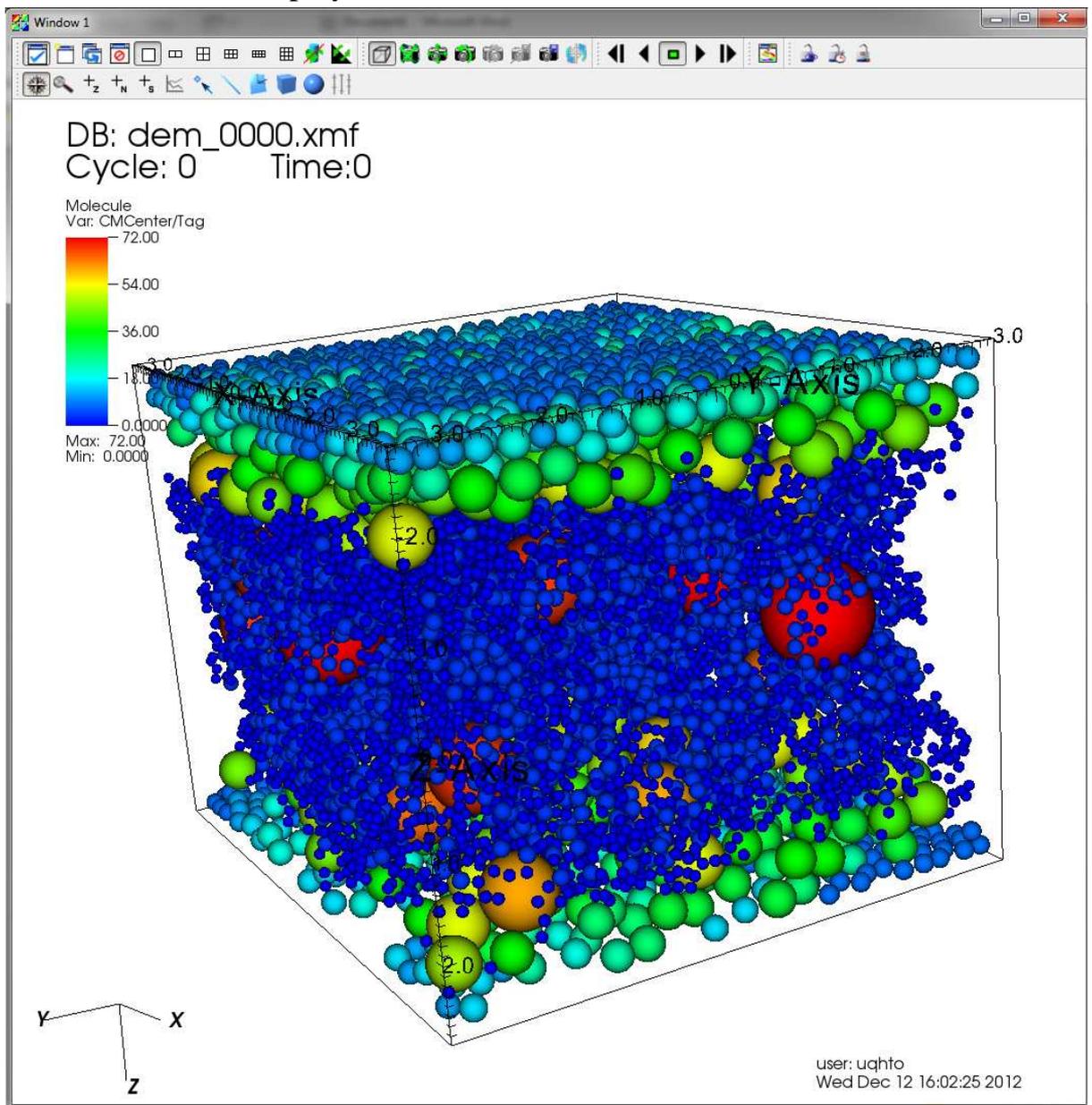
Enter range of selection → Apply (to see the change if plots has been drawn)



Plots → Draw

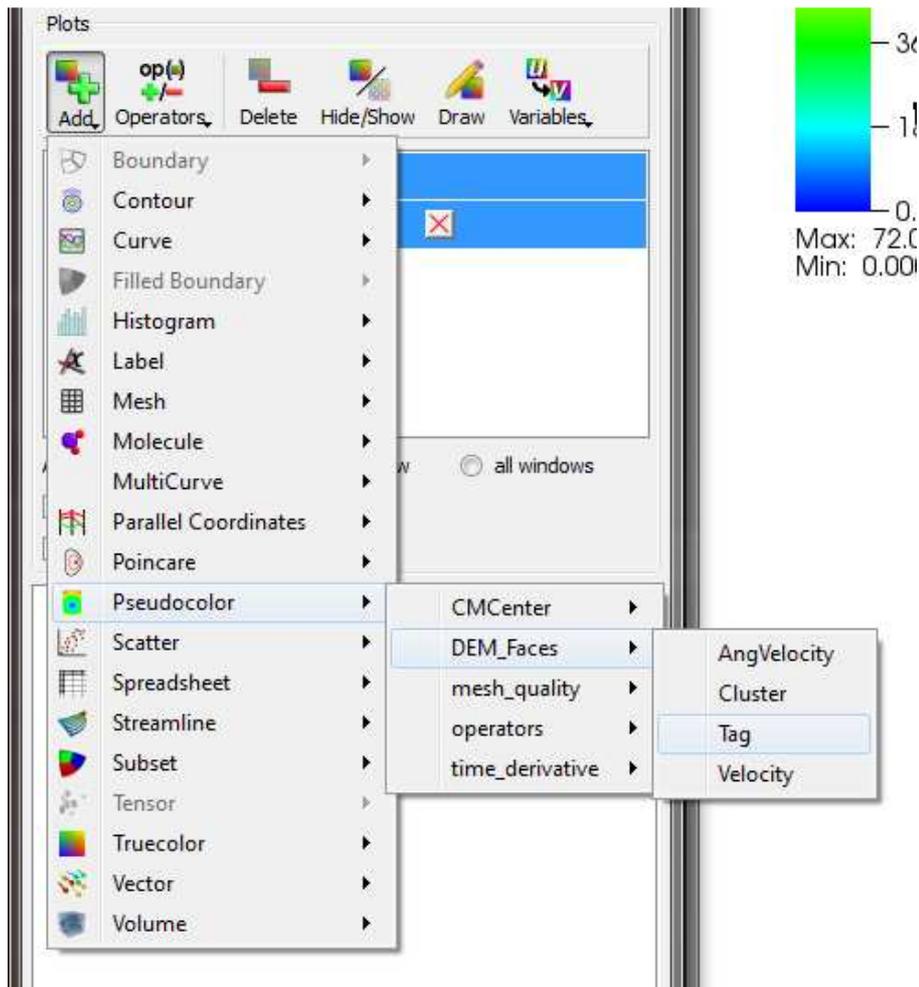


Results should be displayed as below

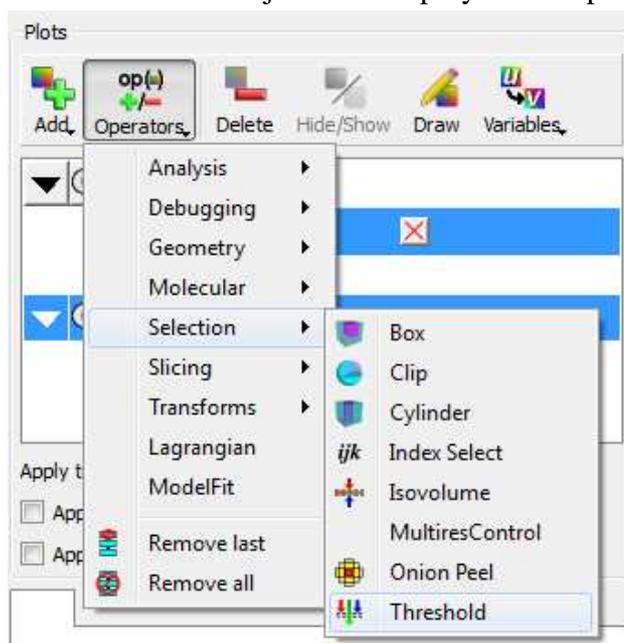


Create filter for polyhedrons

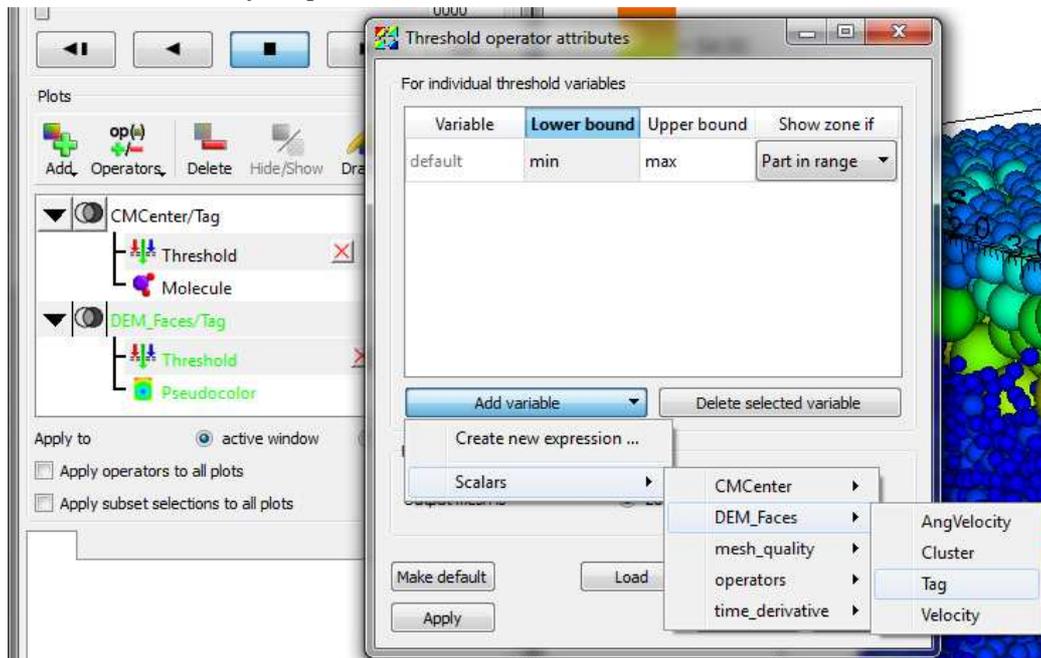
Plots → Add → Pseudocolor → DEM\_Faces → Tag



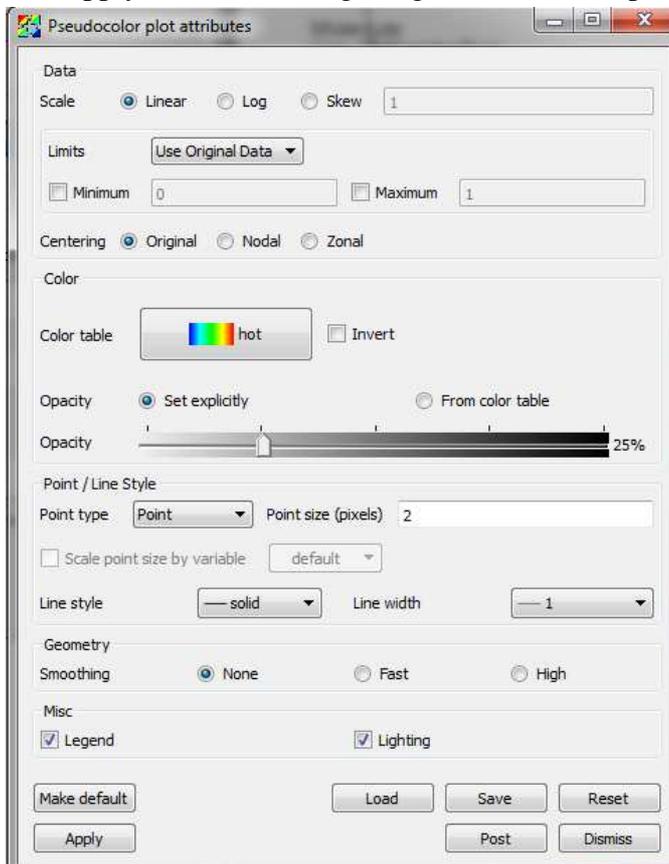
Plots → Operators → Selection → Threshold (remember to deselect apply to boxes if criterion is just for this polyhedrons plot only)



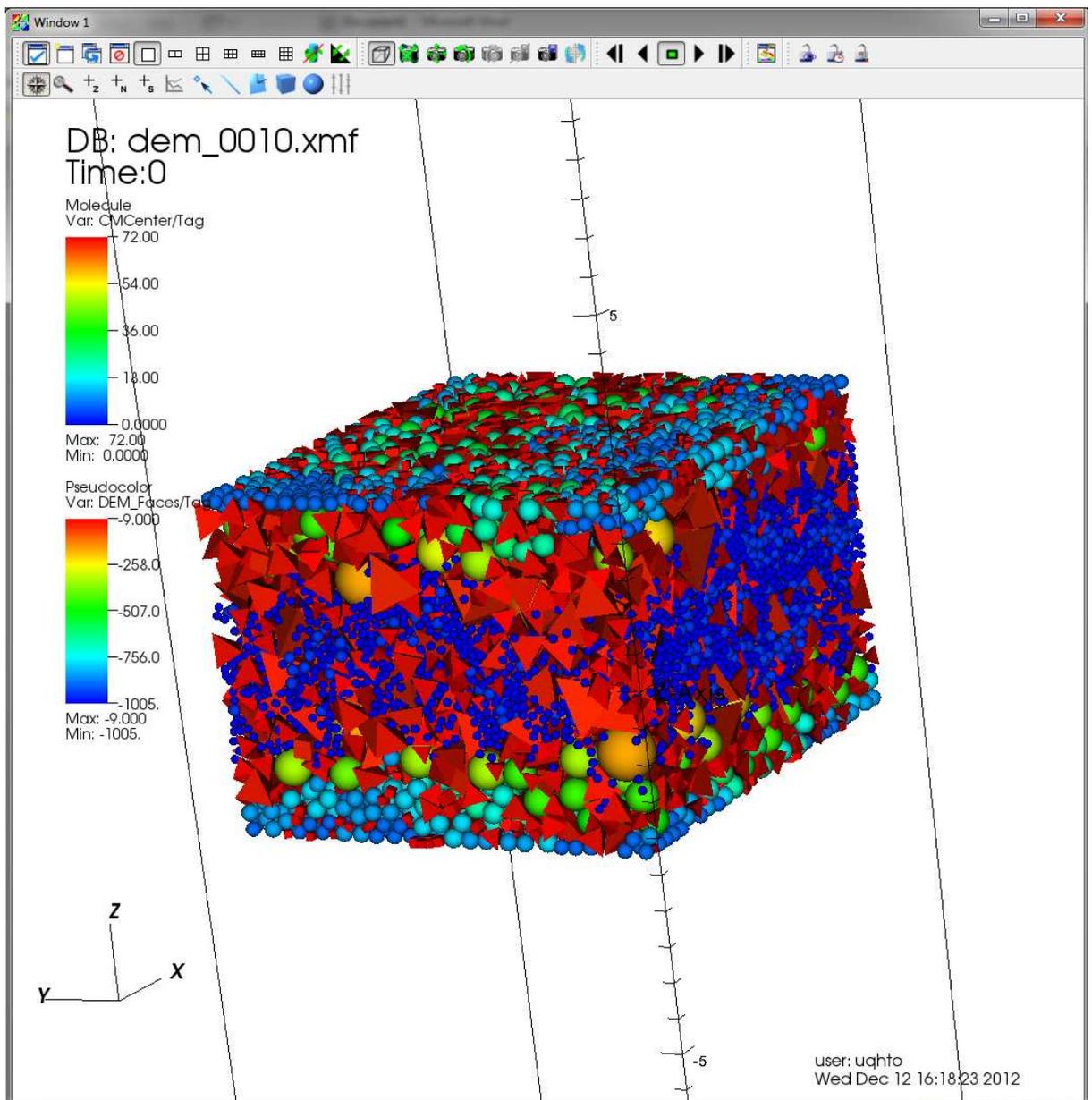
Double click on Threshold → Threshold operator attributes → Add variable → Scalars → DEM\_Faces → Tag (or others, then enter the range of selection as above for spheres)



If the Pseudocolor must be transparent at some level → Double click on Pseudocolor → Pseudocolor plot attributes → Color → Opacity (Change and Apply to see the change to get suitable transparent degree)

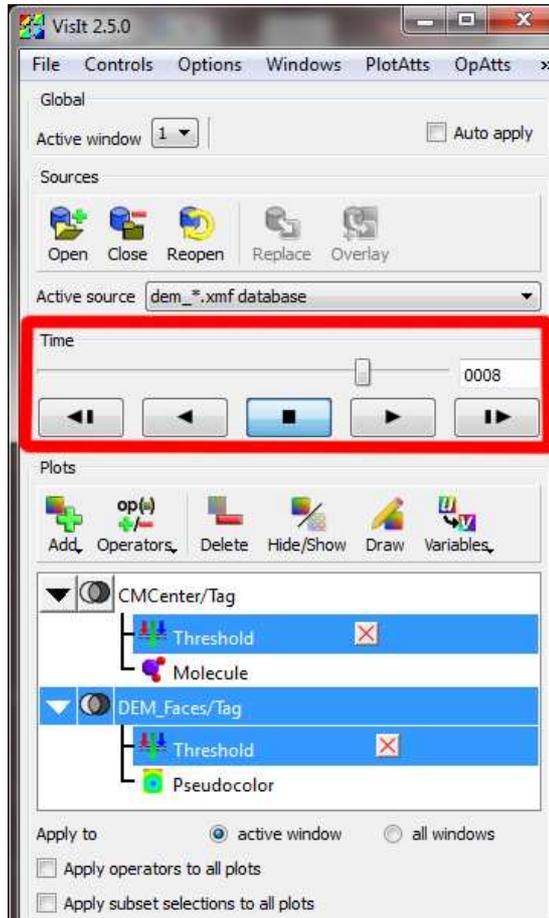


The results should be like below

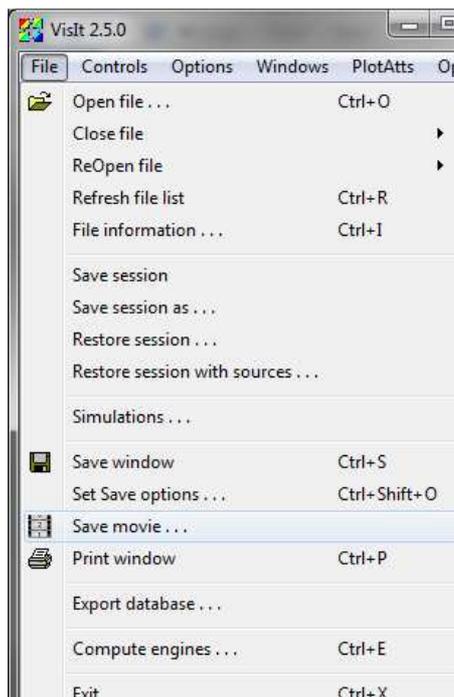


### Create animation

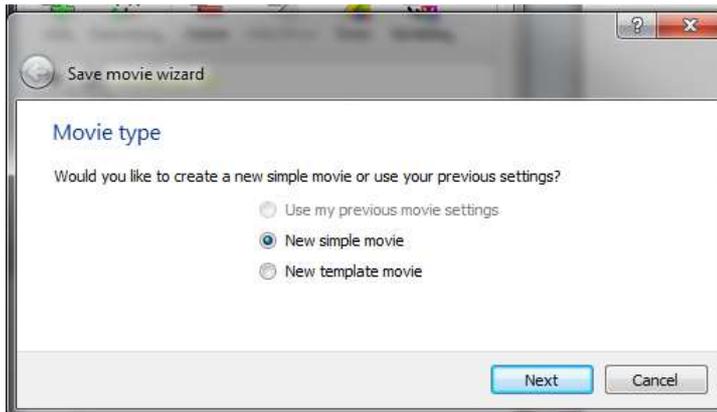
(To see the animation use Time panel)



File → Save movie

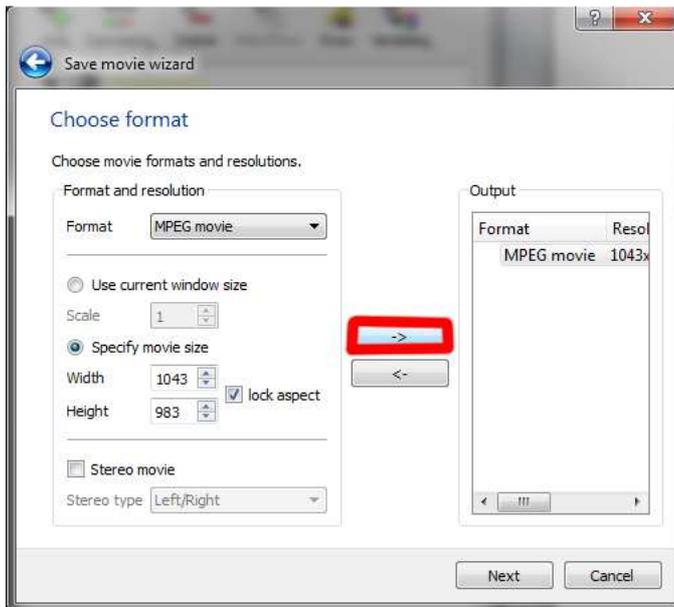


Save movie Wizard → New simple movie

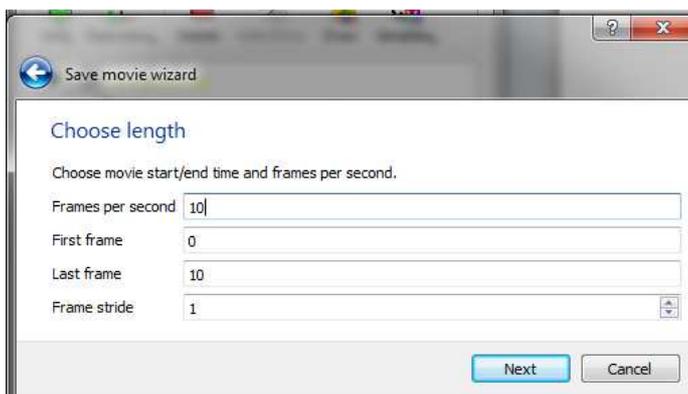


Use current window size or change resolution → press import button

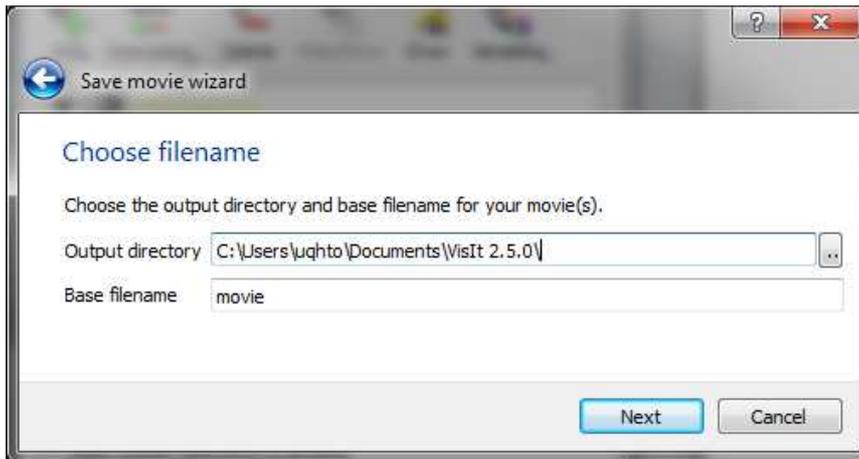
If the format is wrong or no more used → press export button



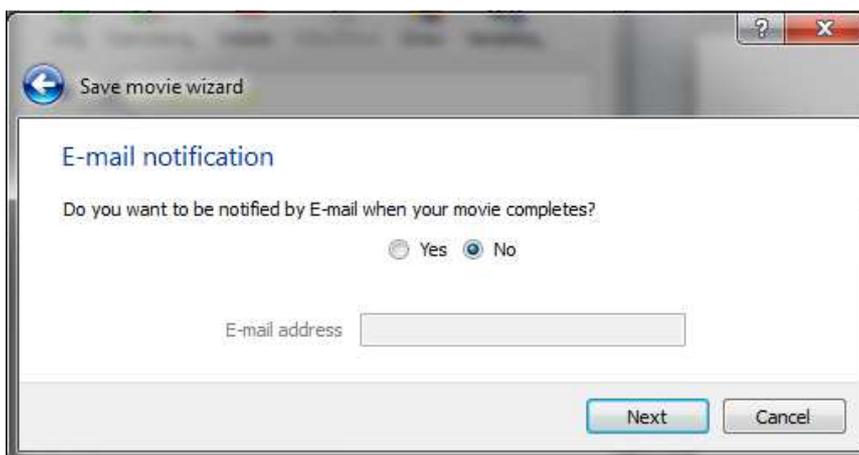
Enter properties of movie



Select output file path and name



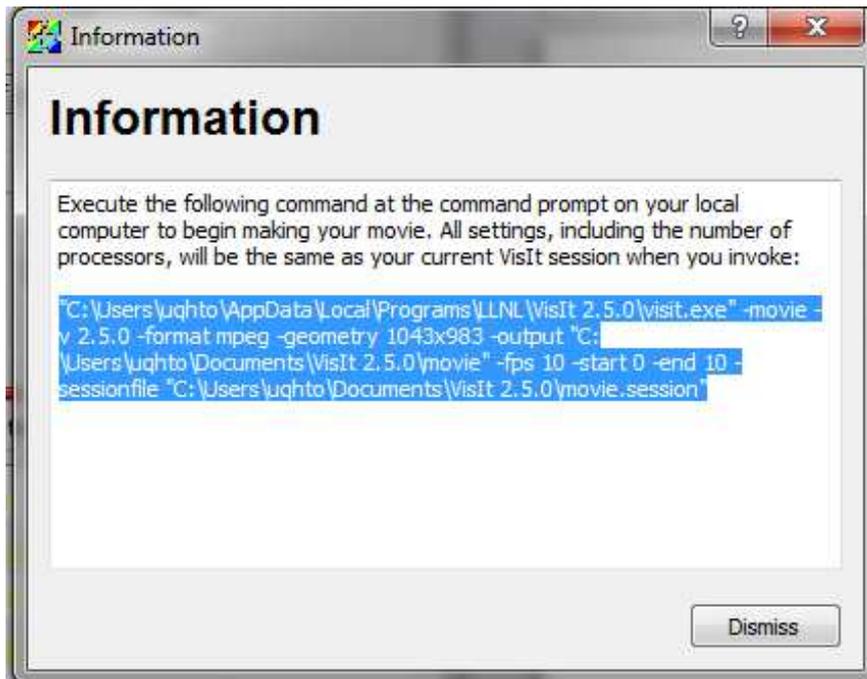
Enter email if need to know



Get command to run in terminal (for Ubuntu) or run windows (for Windows)



Copy the appearing command



Run it in console window.