VISIT VISUALIZATION

CREATE NEW VISUALLATION

Open the xmf file

File \rightarrow Open file



 \rightarrow Browse file

🛃 File open	and and	? ×
Jost localhost		•
Path M:\test12		•
Filter *		
Use "current working directory" by default	File grouping Smart -	Remove paths
Directories	Files	
. (current directory) (go up 1 directory level)	dem_* database (11 total files) dem_0000.h5 dem_0002.h5 dem_0002.h5 dem_0003.h5 dem_0006.h5 dem_00007.h5 dem_00008.h5 dem_0009.h5 dem_0010.h5 mm dem_*.xmf database (11 total files) dem_0000.xmf dem_0000.xmf dem_0002.xmf dem_0003.xmf	
Open file as type: Guess from file name/extension	Set default open options	
Refresh		OK Cancel

Create filter for sphere

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



Double click on layer \rightarrow Molecule plot attributes \rightarrow Atoms Draw atoms as sphere imposters (to have good image with low quality) Radius based on Scalar variable

Variable for atom radius \rightarrow Scalar \rightarrow CMCenter \rightarrow Radius

](Molecule plot attribute	s 📃 🗆 🗙		
	Atoms Bonds Col	ors		
	Draw atoms as	Sphere imposters		
Add_ Operators_ Delete Hide/Show	Radius based on	Scalar variable		
	Variable for atom radius	Default		
	Atom radius scale factor	default Create new expression		
		Scalars +	CMCenter +	AngVel_magnitude
			DEM_Faces	Radius
			mesh_quality	Tag Velocity_magnitude
ply to Apply constants to all plots			time_derivative	
Apply subset selections to all plots		145		
	Misc			
	V Legend			
	Make default Load	Save Reset		

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



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



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

default min max Part in range CMCenter/Tag 0 max Part in range Add variable Delete selected variable or all threshold variables	Add variable Image Add variable Image Delete selected variable all threshold variables tput mesh is Image Image	Variable	Lower bound	Lower bound Upper bound	
CMCenter/Tag 0 max Part in range Add variable CMCenter/Tag 0 max Part in range Delete selected variable Or all threshold variables	MCenter/Tag 0 max Part in range Add variable Delete selected variable all threshold variables tput mesh is Point mesh	default	min	max	Part in range
Add variable	Add variable Add variable Add variable all threshold variables tput mesh is Cones from input Point mesh	CMCenter/Tag	0	max	Part in range
or all threshold variables	all threshold variables				
Output mesh is Ø Zones from input Point me 	a dafailt) [Load] Caus] Base	Add va	iriable 🔻	Delete s	elected variable

Plots \rightarrow Draw

Add	op(a)		Hide/Show	Draw	Variables.
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Results should be displayed as below



Create filter for polyhedrons



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



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

	Vestable		I have been a	Channes II	
Add. Operators. Delete Hide/Show Dra	default	min	max	Part in range	-
CMCenter/Tag CMCenter/Tag					
- ₩ Threshold ≥	Add	variable	Delete s	elected variable	
pply to active window	Add	variable 💌	Delete s	elected variable	
pply to Apply operators to all plots	Add v Create Scalars	variable 🔹	Delete s	elected variable	
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Apply to Apply operators to all plots Apply subset selections to all plots	Add Create Scalars Make default	variable variable va	CMC DEM DEM doperation	elected variable	AngVelocity Cluster Tag

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

Pseudocolor p	lot attributes	these are and the second	
Data Scale 💿 Li	inear 🔘 Log	🔿 Skew 🛛	
Limits (Use Original Data 🔻	Maximum	1
Centering 🧕 C	Driginal 🔘 Nodal	🔘 Zonal	
Color			
Color table	hot	Invert	
Opacity 🧕	Set explicitly	C Fro	om color table
Opacity _	h	Ē	25%
Point / Line Style	1		
Point type Po	int 🔻 Point	size (pixels) 2	
Scale point si	ze by variable 🛛 d	efault 🔻	
Line style	solid	Line width	-1 •
Geometry			
Smoothing	None	💮 Fast	🔘 High
Misc			
Misc V Legend		Lighting	
Misc Legend Make default		☑ Lighting	Save

The results should be like below



Create animation

(To see the animation use Time panel)



File \rightarrow Save movie



Save movie Wizard \rightarrow New simple movie



Use current window size or change resolution \rightarrow press import button

? × G Save movie wizard Choose format Choose movie formats and resolutions. Format and resolution Output MPEG movie Format Format Resol MPEG movie 1043x O Use current window size 1 Scale Specify movie size 1043 韋 Width 🔽 lock aspect 983 🔹 Height E Stereo movie Stereo type Left/Right ۲ III Next Cancel

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

Enter properties of movie

A		×
Save movie wiza	rd	
Choose length	1	
Choose movie start,	/end time and frames per second.	
Frames per second	10	
First frame	0	
Last frame	10	
Frame stride	1	A
	Next Cance	el

Select output file path and name

Save movie wi	zard
Choose filen	ame
Choose the output	it directory and base filename for your movie(s).
Output directory	C:\Users\uqhto\Documents\VisIt 2.5.0\
Base filename	movie
	Next Cancel

Enter email if need to know

of the second party states		? ×
Save movie wizard		
E-mail notification		
Do you want to be notified by E-mail	when your movie completes?	
	🖱 Yes 🧕 No	
E-mail address		21
	_	
		Next Cancel

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



Copy the appearing command



Run it in console window.