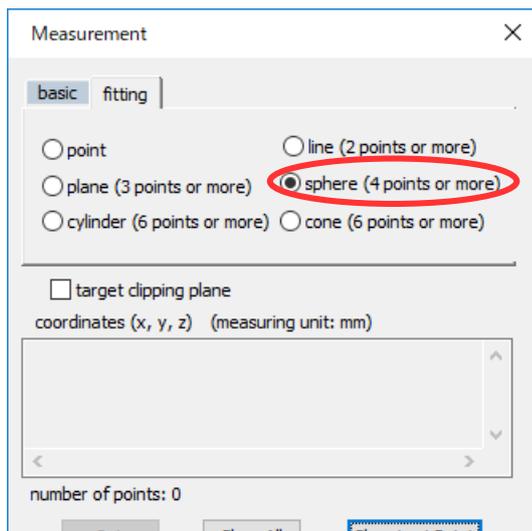
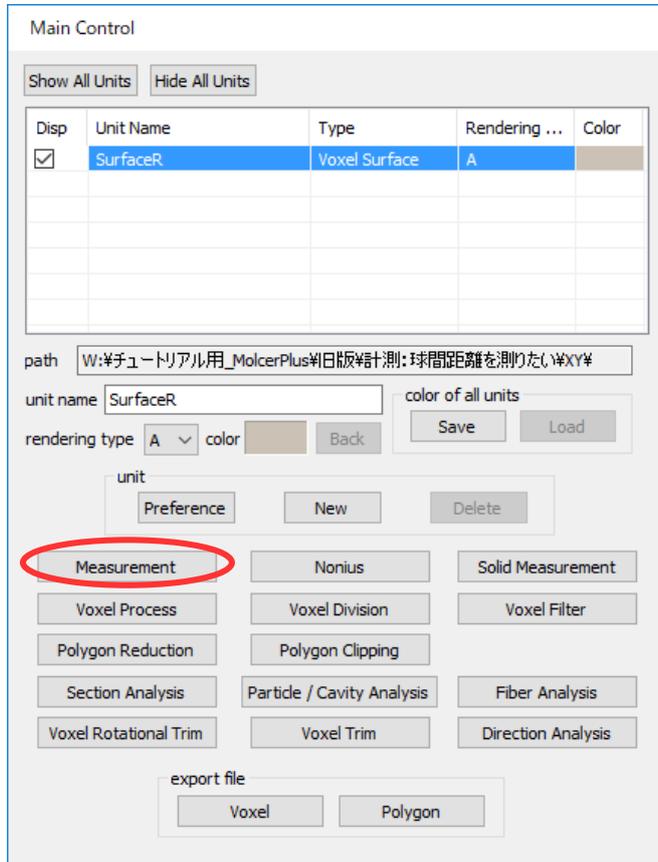


# Measurement: distance between spheres

For v1.36

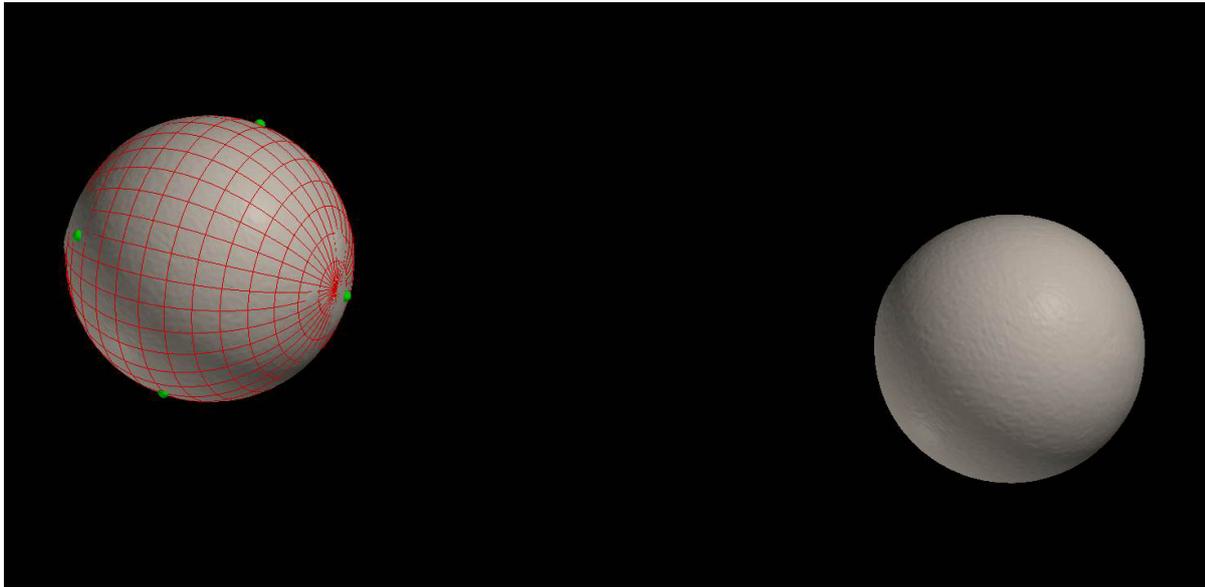
Measure distance between centers of the two spheres.

Change to "Surface Rendering" and open "Measurement" dialog from "Main Control".



Show "fitting" tab and select "sphere (4 points or more)".

Click on the target sphere over four times (green points) to define sphere (red wire frame) and press "Set". If fitting to sphere failed, click more points scattered.



Measurement ×

basic fitting

point  line (2 points or more)

plane (3 points or more)  sphere (4 points or more)

cylinder (6 points or more)  cone (6 points or more)

---

target clipping plane

coordinates (x, y, z) (measuring unit: mm)

```
-0.148989, 0.0701721, -0.140211  
-0.173508, -0.000472873, -0.188194  
-0.207122, 0.0805199, -0.181806  
-0.131943, 0.109364, -0.160673
```

number of points: 4

**Set** Clear All Clear Last Point

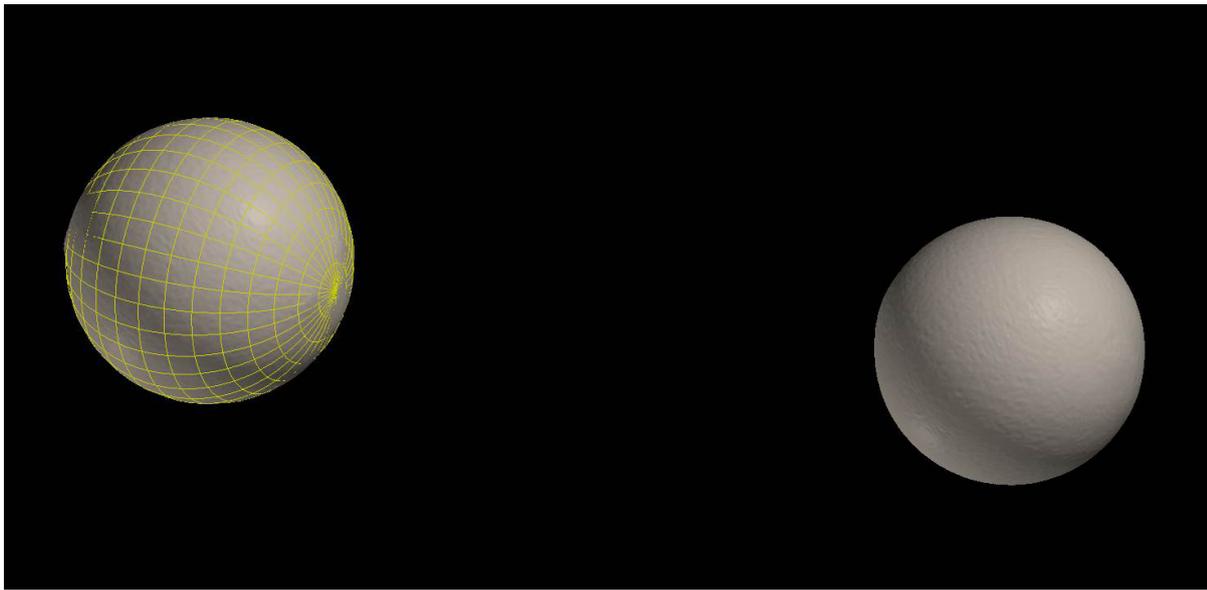

Make Make

Clear Selected Delete

result (measuring unit: mm)

```
center = -0.1454, 0.0606603, -0.210302  
diameter = 0.141649, volume = 0.00148812
```

Set sphere is drawn by yellow wireframe and "sphere1" is added to list.



Measurement ×

basic fitting

point  line (2 points or more)

plane (3 points or more)  sphere (4 points or more)

cylinder (6 points or more)  cone (6 points or more)

---

target clipping plane

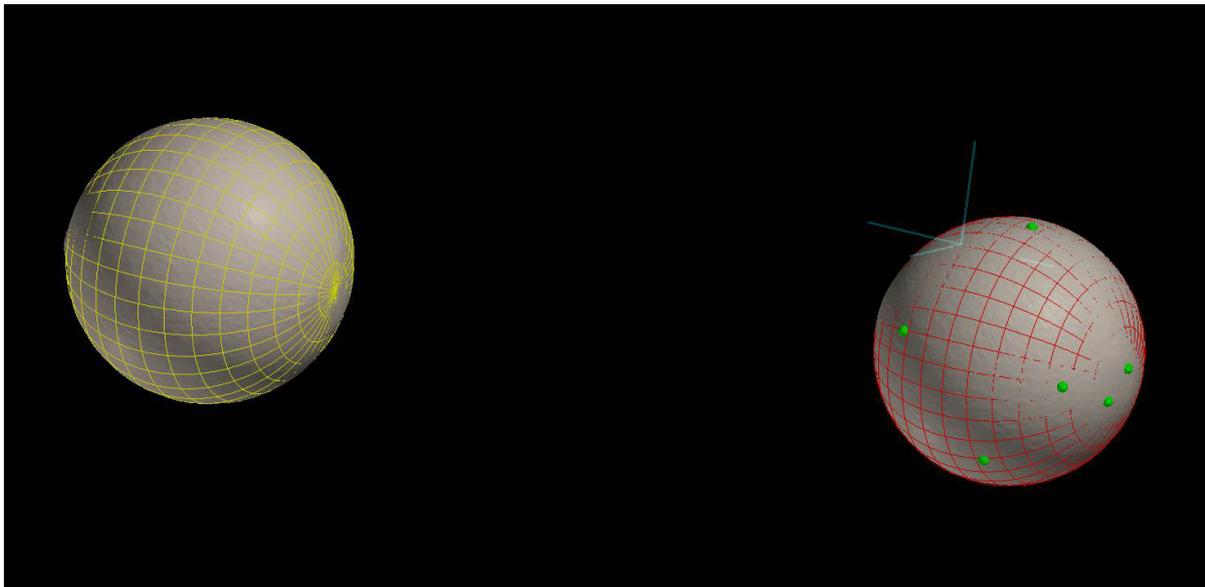
coordinates (x, y, z) (measuring unit: mm)

number of points: 0

sphere1	

result (measuring unit: mm)

Click on another sphere over four times (green points) to define sphere (red wire frame) and press "Set".



Measurement

basic fitting

point  line (2 points or more)

plane (3 points or more)  sphere (4 points or more)

cylinder (6 points or more)  cone (6 points or more)

target clipping plane

coordinates (x, y, z) (measuring unit: mm)

```
0.0366151, 0.0858747, 0.190237
0.0201428, 0.0367115, 0.176497
0.000942618, 0.0834261, 0.151278
0.0694775, 0.106058, 0.183874
```

number of points: 4

**Set** Clear All Clear Last Point

sphere1		

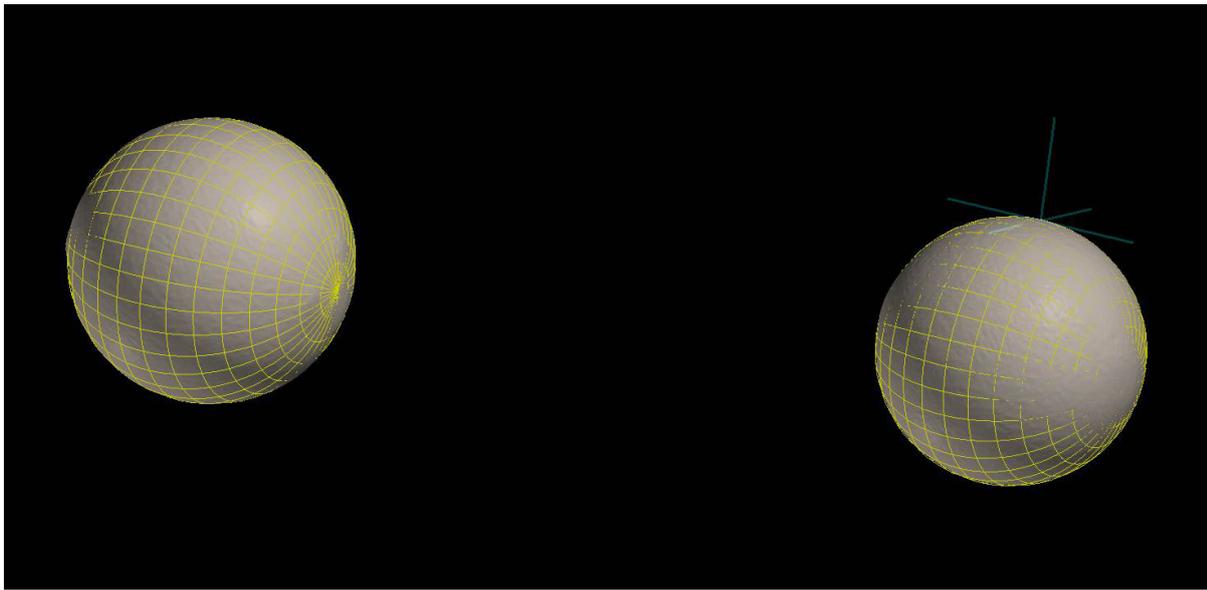
Make Make

Clear Selected Delete

result (measuring unit: mm)

```
center = 0.0619585, 0.0642572, 0.132502
diameter = 0.133311, volume = 0.00124049
```

Set sphere is drawn by yellow wireframe and "sphere2" is added to the list.



Measurement ✕

basic fitting

point  line (2 points or more)

plane (3 points or more)  sphere (4 points or more)

cylinder (6 points or more)  cone (6 points or more)

---

target clipping plane

coordinates (x, y, z) (measuring unit: mm)

number of points: 0

sphere2	
sphere1	

result (measuring unit: mm)

Select "sphere1" and "sphere2" by Ctrl + click and "distance between center of sphere2 and center of sphere1" is shown in "result" area. Selected spheres are drawn by cyan wireframe and line goes through both center of "sphere1" and "sphere2" is drawn red.

