**Taking 3D as an example**

1. **Introduction**

A simple and general mesoscale soft patchy particle model for soft patchy

particles with tunable number, size, direction, and geometrical arrangement of the patches. This model described in reference is usually used to study the problems about to investigate the aggregation behavior and mechanism of various types of soft patchy.



The testing system with following parameters describe the patchy particles shown in above figure.

1. **Parameters**

**A 0 //** **0 patch for type A**

**B 3 // three patches for type B**

**p1 45 0 0 1 // patch type, patch size(), patch vector**

**p1 45 0.866025 0 -0.5**

**p1 45 -0.866025 0 -0.5**

**p1 p1 132.0() 0.5() 396.0() 2.0(n)**

**//patch-patch interaction parameters**

1. **Commands**
2. Run the simulation by:

chmod +x multi-patch.gala

./ multi-patch.gala --gpu=0 >a.log& note: patch-3.log is needed

(2) Drawing pictures of snapshots

galaTackle filename.xml

20

Please use Ovito to open the generated filename.reimage.xml