1. **Description**

This system consists of Janus particles which are shown in following picture.



This system with 1200 Janus particles and 22800 solvent particles will form double helices structures with following parameters. More detailed information can be seen in “Zhan-Wei Li, Zhong-Yuan Lu, Zhao-Yan Sun and Li-Jia An，Soft Matter, 2012, 8, 6693”.

1. **Parameters**

Repulsion parameter**;**

Attraction parameter**;**

Janus balance ;

**;**

**Box=**;

Number density **;**

The concentration of Janus particles  **=0.05.**

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

python Janus-one-patch.molg

python Janus-one-patch.gala --gpu=0 >a.log&

1. Copy the files in display folder to current folder. Then, we can see the configurations by executing the displaying program (VMD is needed):

g++ \*.cc

./a.out particles.\*.xml

vmd –e Janus-one-patch-vmd.tcl