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# -*- coding:utf-8 -*-  
#  
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# 2016-10-03
```

Modules

- [argparse](#)
- [matplotlib.pyplot](#)
- [time](#)
- [numpy](#)
- [save_data](#)

Functions

- calc_R**(beta, save_data_for_one_cluster=False)
- calc_ave_R**(num_of_strings=100)

Data

- L** = 4002
- frames** = 2000