diecutting

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/home/shotaro/growing-string/triangular_lattice/diecutting.py

```
# -*- coding:utf-8 -*-
#
# written by Shotaro Fujimoto
# 2016-08-24
```

Modules

itertools numpy matplotlib.pyplot

Classes

__builtin__.object

DieCutting

class **DieCutting**(__builtin__.object)

Methods defined here:

__init__(self, L=60, frames=1000, sample=3, beta=2.0, c=0.5, plot=False)

diecutting_one_cluster(self, width, height, x0, y0)

eval_subclusters(self, width, height, x0, y0)

get_cutting_sizes(self)

```
    Create the cutting size list for simulation

    self.X0: x coordinates of the left buttom corner
    self.Y0: y coordinates of the left buttom corner
    self.cutting_size_max_width: max width of the cutting size
    self.cutting_size_max_height: max height of the cutting size
    self.cutting_size_xs: cutting size list
    self.cutting_size_ys: cutting size list
    self.cutting_sizes: ndarray [[cutting_size_xs[0], cutting_size_ys[0]],
                                 [cutting_size_xs[1], cutting_size_ys[1]],
                                     ...
                                ]

    In this funciton, cutting size is determined by which the whole region
    is in the cluster.
```

get_results_each_subclusters(self, sets)

indexes_one_edge(self, condition)

init(self)

start(self, result_set, visualize=True)

visualize_results(self)

Data descriptors defined here:

__dict__

```
    dictionary for instance variables (if defined)
```

__weakref__

```
    list of weak references to the object (if defined)
```

Functions

visualize_max_size_of_sub_cluster(self)

visualize_num_of_sub_clusters(self)

visualize_size_dist_of_sub_clusters(self)