# Analysis programs for LASSI simulation engine

The GitHub space contains analysis codes for the study “the role of protein shape in multiphasic separation within condensates” by Vikas Pandey, Tomohisa Hosokawa, Yasunori Hayashi, Hidetoshi Urakubo [1].

All programs were written for Python3.8 and designed for the analyses of output from LASSI simulation engine [2].

[1] https://www.biorxiv.org/content/10.1101/2024.08.26.606306v1

[2] https://github.com/Pappulab/LASSI

## Directories

### bin

Executable programs.

### lib

Shared libraries.

### workspace

Accessary programs.

### obsoletes

Obsolete programs.

Under documentation...

### lib directory files

Files in this directory are shared by the following executable Python files.

### all1\_edit\_data.py

All of the beginning, Simulated lammpstrj files were translated into the dict variable d that contains many.

### all2\_edit\_connectivity\_graph.py

All of the beginning, Simulated lammpstrj files were translated into the dict variable d that contains a network multigraph and generated connectivity info.

### all3\_plot\_profile.py

### all4\_plot\_profile\_3d\_ovito.py

### all5\_plot\_profile\_3d\_pyvista.py

### all6\_plot\_video\_3d\_ovito.py

### all7\_plot\_profile\_shared\_PSD95.py

### both1\_plot\_matrix.py

### both1\_plot\_matrix\_3d\_pyvista.py