program

This is an automatic marker-based alignment program.You may need the newstack module of IMOD to get the final aligned st (mrc) data (not must).

example

> ./markerauto -i BBa.st -a BBa.rawtlt -n BBa_new.tlt -o BBa_fin.xf -d -1

The software will automatic initialize the diameter, no fast mode, no log output.

> ./markerauto -i BBa.st -a BBa.rawtlt -n BBa_new.tlt -o BBa_fin.xf -d 8

User gives the initial diameter value, no fast mode, no log output.

> ./markerauto -i BBa.st -a BBa.rawtlt -n BBa_new.tlt -o BBa_fin.xf -d -1 -v

The software will automatic initialize the diameter, with log output.

> ./markerauto -i BBa.st -a BBa.rawtlt -n BBa_new.tlt -o BBa_fin.xf -d -1 -t

the software will automatic initialize the diameter, with fast mode.

To generate final stack:

> for IMOD: newstack -input BBa.st -output BBa_fin.mrc -xf BBa_fin.xf

> for AuTom: mrcstack -i BBa.st -o BBa_fin.mrc -x BBa_fin.xf

argument

-short_argument(--long_argument): usage

- -i(--input): specify the inputfile.

  `-i inputfile.st` or `--input inputfile.st`

- -o(--output):name the outputfile.

  `-o outputfile.xf` or `--output outputfile.xf`

- -h(--help): print help content,no extra argument needed.

- -a(--initangle): specify the init angle file.

  `-a initangle.rawtlt` or `-initangle inintangle.rawtlt`

- -d(--diameter):specify the marker diameter(pixel).

  `-d 8` or `--diameter 8`

- -n(--newangle):name the new angle filename.

  `-n newanglefile.tlt` or `--newangle newanglefile.tlt`

- -r(--rotationangle): image rotation

  `-r 0` or `--rotationangle 0`

- -v(--verbose): display verbose information.number greater than 1 enables this mode.If you do not provide this argument,it will run as '-v 0'.

  `-v 1` or `--verbose 0`

- -t: enable fast mode.