

## Instructions for installing and running the FFKM algorithm.

### Installation

- 1- Download and install the software Scilab: <https://www.scilab.org/download/scilab-2024.0.0>
- 2- Download the folder FFKM, copy and paste on C:\. The final path must be C:\FFKM.

### Execution of FFKM

- 1- Open the Scilab: File > Execute > FFKM > exec > choice the data set.
- 2- Open the clustering results: Applications > Variable Browser > results.
- 3- The results are also available in CSV format, in the Results folder: FFKM>Results.

The results are in the following format, Table (1), and can be copied and pasted into stereographic projection software. For example, to view the clustering results in Dips, Rocscience, paste the results into Dips and choose the Symbolic Pole Plot option.

Table 1: Output format of the results

Variable Editor - results (Double)					
Var - results	Dip	Direction	K=2	K=3	K=4
	1	2	3	4	5
1	89	252	2	1	1
2	89	285	2	1	2
3	85	280	2	1	2
4	85	312	2	3	3
5	80	135	2	3	3
6	82	270	2	1	2
7	87	187	1	2	4
8	85	215	1	2	4
9	64	133	2	3	3

Input data should be in txt format and can be pasted directly from Excel into a txt file. See the input data format in the DataSet folder.

The stereographic projection graphics are under development.

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