Short manual – exportCTF.m

The function *exportCTF* exports EBSD data from *ebsd* objects created with the crystallographic texture analysis tool MTEX to Channel Text Files (*ctf*) for further processing with interactive applications such as *Oxford Channel5* or *Atex*. The function was tested with data that was imported into MTEX from Oxford *cpr/crc* files, but should work with any kind of imported data.

Function arguments:

```
function exportCTF(ebsd,fName,varargin)
```

ebsd: MTEX ebsd-object

fName: Name of output file including file ending '.ctf' (Example *'ebsdDataOut.ctf'*)

varargin: Variable argument in – optional arguments as parameter-value pairs:

'params': The parameter *params* may be used to define optional microscopy acquisition parameters and may be combined with these values:

- A structure containing the file information from an imported *cpr/crc* EBSD file (Example: *…,'params',cprStruct,…*)
- String *'manual'* which will prompt the user to manually supply the parameters (Example: *…,'params','manual',…*)

By default the microscopy acquisition parameters are set to zeros.

'*flip*': The parameter *flip* may be paired with Boolean values 0 and 1 and indicates whether the *ebsd* spatial data (not the orientations) should be rotated by 180°. By default this parameter is set to 0 (no rotation).

(Example: *…,'flip', 1,…*)

Contact

If you encounter problems or have suggestions for improvement of this function feel free to contact me via *contactnospam@fniessen.com* (remove the *nospam* to make this email address work).

Frank Niessen, 18/04/2019