Instructions for how to run simulations for Sensitivity Study

See LOG\_mpDriver\_Parallel for information as well.

* Need to select a texture (Euler angles) that will be used for the simulations and put it into a file named texture.txt. Either pick a texture or use writeTexture.py to generate quaternions which will have to be imported into Matlab using firstPoleFigure.m to read in file containing quaternions and convert them to Euler angles, write the Euler angles to a texture.inc file, and produce a pole figure to have a visual representation of the texture.
* Generate properties for bi-level full factorial analysis using mpDriver\_Property\_Input\_Generator.py which will output a file called Properties\_mpDriver.inc. The limits for the properties should be limits that are seen in the literature or for fit parameters be reasonable based on a few test simulations.
* Make sure mpDriver\_Taylor.f90 and makefile are in the directory along with the user material. Make sure that the user material name is correct in mpDriver\_Taylor.f90
* For the batch files (used for running mpDriver)
  + Commands
    - sbatch – Submits the file
    - scancel – cancels the current job
    - squeue – Monitor job
    - tail -f [SLURMFILE] – Shows what the command window would normally show without using batch file to submit job
  + Make .sub file for the batch file
  + To run the job type: $ sbatch [NAME].sub
* https://marq.sharepoint.com/teams/pangea/Wiki/Running%20jobs%20using%20SLURM.aspx