**Instructions for Running LidarMC++ On the Turing Cluster**

**Step 1: Enable the new module system**

enable\_lmod // enables new module system

**Step 2: Load All Necessary Modules**

module load gcc // load the gcc compiler

module load armadillo/8.300 // load Armadillo

**Step 3: Generate the Input Files**

* **LidarMC\_turingBatch.csv** – csv file containing all of the inputs for running LidarMC++ for *n* number of different runs
* **LidarInputGen.py – python script that generates *n* number of input files**

**Step 4: Modify LidarMC++ to take the desired input file**

**Step 5: Use the *makefile* to compile each individual run**

make //

**Step 6: Submit job using SLURM commands**

sbatch lidarSubmission.sh

**Step 7: Check that each file is running and hasn’t failed**

squeue -u bcoll018

**SLURM**

**https://slurm.schedmd.com/sbatch.html**

**SLURM Commands**

squeue -u bcoll018 // check your jobs

sbatch lidarSubmission.sh // submit your job

tail -F lidarSubmission.out // watch the output file

**SLURM Submission**

**--time //set maximum time**