This file: ASCOT\_directories\_01.docx ASCOT directories and aliases to get you to them

magenta = most commonly-used aliases

The following aliases are defined by .bashrc.ext

|  |  |  |  |
| --- | --- | --- | --- |
| alias | path | contains |  |
|  |  |  |  |
| tohome | /global/homes/s/sscott | 🡨 in the bashrc.ext file, you should change this to point to your own home directory |  |
| toruns | /global/cfs/cdirs/m3195/ascot/ascot5/runs | 1. recent python scripts (e.g. group\_go\_2497.py) to generate input ASCOT5 files (.h5). 2. submit scripts, e.g. Perlmutter\_2518.sh, to submit ASCOT simulations to be run on Perlmutter 3. output log files, e.g. slurm-10072759.out. One for each simulation. |  |
| tooutput | /global/cfs/cdirs/m3195/ascot/ascot\_run\_output | one folder for each ASCOT5, e.g. ascot\_work\_10072757. each file contains the ascot output file plus a copy of the input file plus some more log information |  |
| tmp | /global/cfs/cdirs/m3195/ascot/mypython | stands for “to-mypython”: this folder stores all of my home-grown Python scripts that preprocess and postprocess the ASCOT simulations. |  |
| toascot | /global/cfs/cdirs/m3195/ascot> | this is a high-level directory for the ASCOT code suite and results. |  |
| toascot5 | /global/cfs/cdirs/m3195/ascot/ascot5 |  |  |
| - | /global/cfs/cdirs/m3195/ascot/ascot5-perlmutter-jw/ascot5/ | The current ASCOT5 executable file lives here. |  |
| toa5py | /global/cfs/cdirs/m3195/ascot/python/a5py/a5py | Some ASCOT utilities live here |  |
| topython | /global/cfs/cdirs/m3195/ascot/python | folder for official ASCOT Python scripts |  |
|  |  |  |  |
| a5editoptions | invokes /global/cfs/cdirs/m3195/ascot/python/a5py/bin/a5editoptions | This app lets you view some content of ASCOT input (.h5) files: just the scalar values and switches, not data like temperature and magnetic field |  |
| a5gui | invokes /global/cfs/cdirs/m3195/ascot/python/a5py/bin/a5gui | This app is a general-purpose viewer for ASCOT output. I’m sorry to say that I’m not very good at using it. |  |

**Important note:** the directories /global/cfs/cdirs/m3195/ascot … are shared directories. You will have full access to all files in those directories, including the read/write/execute privileges. This is very convenient, as it avoids the usual access problems if I create a file in my personal directory and then you try to use it.

But it means that you have the power to inadvertently delete many important files. If you want to edit say an existing Python script in the ‘tmp’ directory, I recommend that you make a copy of if first with a new name, and edit the file under its new name. Also, you may choose to periodically save the existing files under git.

For example, after issuing the tmp command:

git add \*.py

git commit -m “I have saved all .py files