**Running the PSMD pipeline:**

-Tensor fitting was done using dtifit on preprocessed 30 directions dwi data.

-Symbolic links were created to the MD, FA, AD, RD native maps in order for them to be compatible inputs to the supplied PSMD scripts.

-An in house parallelization script was used to parallelize the execution of MAIN\_script\_PSMD.sh over the subject pool.

**QC of PSMD pipeline results:**

-Checked if all subjects have masked images with FA skeleton.

-Checked if the dimensions of the TOTAL\_METRICS\_Skel\_header.csv file match the number of subjects and all parameters computed.

-QC of FA maps produced by tbss\_preproc1

-QC of FA maps after non-linear registration to standard space

-Randomly assessed skeleton superpositions on spatially normalized DTI metric maps with MD maps as example