

Alignment Status

- Attempted allowing all alignment parameters to be free for silicon sensors and stgc pentagons.
 - There are no constraints on parameters, resulting in z-shift and rotations into the z-direction to have very large values.
- If we allow just the rotation and shifts in the x-y plane, results seem to reflect shifts in modules on the order of a few centimeters.
 - We expect the overall FST halves are shifted by a few millimeters.
 - The minimization doesn't seem to be converging fast enough and ends after a set number of iterations, which is why I think these large shifts persist.
- I have not added the hierarchical alignment parameters for an overall shift in the FST halves and wedges and I have been and will be working on adding these.
 - This should help with convergence of the millepede program.