## FST Material Budget

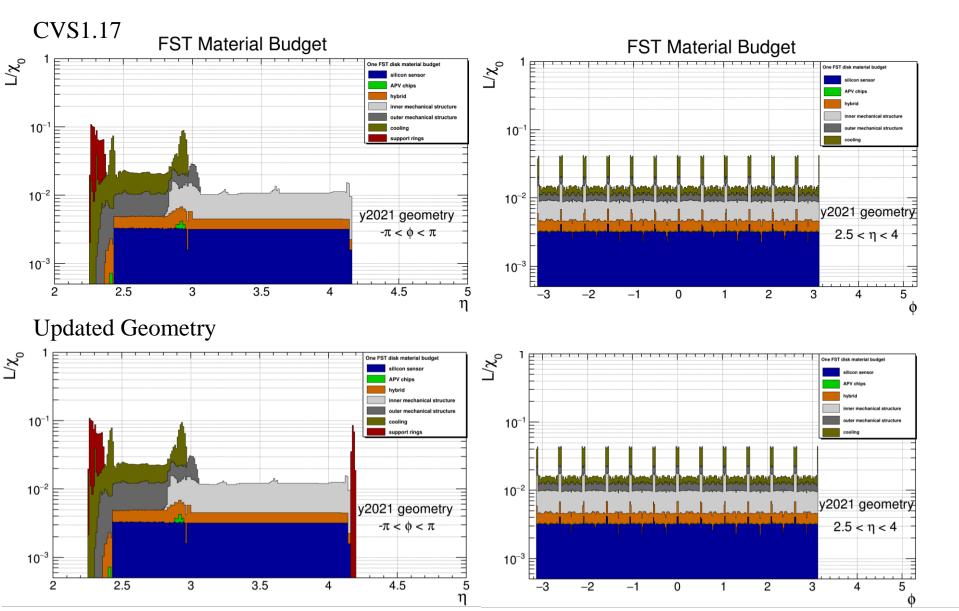
CVS1.17 vs Updated FstmGeo.xml

03/31/2021

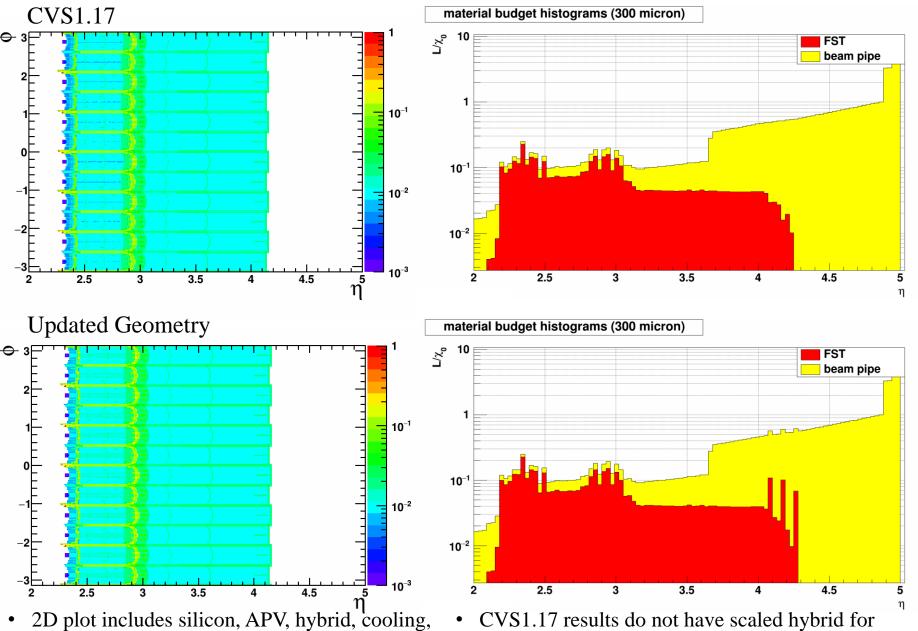
## Updates to Geometry

- FST geometry used is updated from CVS1.17.
  - File used located at /star/u/videbaks/fst/StarVMC/Geometry/FstmGeo/FstmGeo.xml
  - Inner support rings are included.
  - Inner silicon sensors are shifted slightly further from overall FST disk z-location.
  - Inner and outer mechanical structure bases have greater dz.
  - Hybrid scaled to 0.35\*original thickness in geometry file.

3/31/2021 2



- Inner and outer mechanical structure base have greater dz  $\rightarrow$  L/ $\chi$  increased over total phi and eta range.
- Inner support rings added for newest geometry.



• Hybrid scaled by \*0.35 in CVS1.17 results.

inner and outer mechanical structures.

 CVS1.17 results do not have scaled hybrid for full FST material budget or outer support rings.