

SVT High Level Tools

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- Idea is to have tools able to monitor performance of SVT and quality of the data.
- Tools are developed only to understand better SVT.
- Present just some ideas to discuss.
- No work is started, first need to identify and agree on a list of things to do.
- Need some feedback and suggestions for additional items.
- Identify what is needed first
- We are ready to start the work

SVT High Level Tools

(a possible list)

- Associate SVX tracks to SVT tracks
 - Use SVX hits information contained in SVT data
 - Interesting if SVX is aligned
 - Study SVT alignment
 - Study beam position in 3 dim.
 - Study SVT efficiency and fake track rates
- Associate SVT tracks to high level objects (muons or electrons)
- Reconstruct J/Ψ (and eventually Y and Z_0) using SVT tracks.
 - Study mass resolution
 - Study vertex and decay length resolution
 - Measure B lifetime using J/Ψ ?
 - Study track impact parameter
 - Measure SVT resolution from $Z \rightarrow \mu\mu$ events
- Reconstruct $W \rightarrow e$ or μ decays.
 - Study impact parameter resolution from stiff and prompt tracks.