

Pass7 Checklist

- ✓ Validate Detached Vertex Fixes Mathew Graham Miriam Diamond
- ✓ Make sure events will be reconstructed only, if SVT FLAGS are good Unknown User (spaul)
- ✓ Finalize target z position Norman Graf
 - ✓ ~~Propose~~ z = +0.5mm based on an analysis of Møller candidates (link to presentation).
- ✓ Reassess ECAL alignment with latest SVT alignment? Nathan Baltzell
- ✓ Update 2015 steering files for separate ECAL time calibration Unknown User (hszumila)
- ✓ Review and approve EngineeringRun2015FullRecon.lcsim steering file Norman Graf
 - ✓ But needs Holly's fix for ecal time corrections
 - ✓ ~~Propose setting~~ Have set `_patchVertexTrackParameters` to *false* in `HpsReconParticleDriver`
 - ✓ ~~Propose exposing~~ Have set the beam spot and target position and beam spot resolution in the steering file (different for 2015 and 2016)
 - ☐ [2015 Beamspot Stability Talk by Nathan Baltzell](#)
 - ☐ [2015 Beamline Performance talk by Takashi Maruyama](#)
 - ✓ ~~Propose limiting~~ Have limited ReconstructedParticles to using GBL tracks (removed MatchedTracks from list of Track Collections to process)

```
<driver name="ReconParticleDriver" type="org.hps.recon.particle.HpsReconParticleDriver" >

  <ecalClusterCollectionName>EcalClustersCorr</ecalClusterCollectionName>

  <trackCollectionNames>GBLTracks</trackCollectionNames>

  <beamPositionX> 0.0 </beamPositionX>

  <beamSigmaX> 0.125 </beamSigmaX>

  <beamPositionY> 0.0 </beamPositionY>

  <beamSigmaY> 0.030 </beamSigmaY>

  <beamPositionZ> 0.5 </beamPositionZ>

</driver>
```

V0 Skim Driver ~~updates~~ rewrite Norman Graf

- ✓ Added new class with explicit, limited set of loose cuts. `V0CandidateFilter2015Pass7.java`
- ✓ Check the Matrix singular exception - should only stop track reconstruction, not abort rest of file. Norman Graf
 - ✓ Being addressed via git issue 243.
 - ✓ Resolved with pull request 244.
- ✓ dPhi large exception - check and fix. Mathew Graham
 - ✓ Addressed in git issue 245
 - ✓ Resolved in pull request 246

- ☐ Software Releases
 - ☐ hps-java [Jeremy McCormick](#)
 - ✓ hps-mc [Jeremy McCormick](#) (use v1.0)
 - ☐ hps-dst [Omar Moreno](#)

[20171129_Pass7Readiness_Graf.pdf](#)