

# PhysicsRun2016FullRecon.lcsim

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<?xml version="1.0" encoding="UTF-8"?>
<lcsim xmlns:xs="http://www.w3.org/2001/XMLSchema-instance" xs:noNamespaceSchemaLocation="http://www.lcsim.org/schemas/lcsim/1.0/lcsim.xsd">
  <!--
    @brief Steering file that will be used for pass 2 reconstruction of
    the 2015 Engineering Run data.
    @author <a href="mailto:meeg@slac.stanford.edu">Sho Uemura</a>
    @author <a href="mailto:omoreno1@ucsc.edu">Omar Moreno</a>
  -->
  <execute>
    <!--RF driver-->
    <driver name="RfFitter"/>

    <!-- Ecal reconstruction drivers -->
    <driver name="EcalRunningPedestal"/>
    <driver name="EcalRawConverter" />
    <driver name="EcalTimeCorrection"/>
    <driver name="ReconClusterer" />
    <driver name="CopyCluster" />
    <driver name="EventMarkerDriver"/>
    <!-- SVT reconstruction drivers -->
    <driver name="RawTrackerHitSensorSetup"/>
    <driver name="RawTrackerHitFitterDriver" />
    <driver name="TrackerHitDriver"/>
    <driver name="HelicalTrackHitDriver"/>
    <!--
      Will run track finding algorithm using layers 345 as a seed,
      layer 2 to confirm and layers 1 and 6 to extend. The collection
      name of the tracks found with this strategy will be "MatchedTracks".
    -->
    <driver name="TrackReconSeed345Conf2Ext16"/>
    <!--
      Will run track finding algorithm using layers 456 as a seed,
      layer 3 to confirm and layers 2 and 1 to extend. The collection
      name of the tracks found with this strategy will be
      "Tracks_s456_c3_e21"
    -->
    <driver name="TrackReconSeed456Conf3Ext21"/>
    <!--
      Will run track finding algorithm using layers 123 as a seed,
      layer 4 to confirm and layers 5 and 6 to extend. The collection
      name of the tracks found with this strategy will be
      "Tracks_s123_c4_e56"
    -->
    <driver name="TrackReconSeed123Conf4Ext56"/>
    <!--
      Will run track finding algorithm using layers 123 as a seed,
      layer 5 to confirm and layers 4 and 6 to extend. The collection
      name of the tracks found with this strategy will be
      "Tracks_s123_c5_e46"
    -->
    <driver name="TrackReconSeed123Conf5Ext46"/>
    <!--
      TrackDataDriver needs to be run before ReconParticleDriver so the
      ReconstructedParticle types are properly set.
    -->
    <driver name="MergeTrackCollections"/>
    <driver name="GBLRefitterDriver" />
    <driver name="TrackDataDriver" />
    <driver name="ReconParticleDriver" />
    <driver name="LCIOWriter"/>
    <driver name="CleanupDriver"/>
  </execute>
  <drivers>
    <driver name="EventMarkerDriver" type="org.lcsim.job.EventMarkerDriver">
      <eventInterval>1000</eventInterval>
    </driver>

    <driver name="RfFitter" type="org.hps.evio.RfFitterDriver"/>

    <!-- Ecal reconstruction drivers -->
    <driver name="EcalRunningPedestal" type="org.hps.recon.ecal.EcalRunningPedestalDriver">
      <logLevel>CONFIG</logLevel>
    </driver>
    <driver name="EcalRawConverter" type="org.hps.recon.ecal.EcalRawConverter2Driver">
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    <ecalCollectionName>EcalCalHits</ecalCollectionName>
</driver>
<driver name="EcalTimeCorrection" type="org.hps.recon.ecal.EcalTimeCorrectionDriver"/>
<driver name="ReconClusterer" type="org.hps.recon.ecal.cluster.ReconClusterDriver">
  <logLevel>WARNING</logLevel>
  <inputHitCollectionName>TimeCorrEcalHits</inputHitCollectionName>
  <outputClusterCollectionName>EcalClusters</outputClusterCollectionName>
</driver>
<driver name="CopyCluster" type="org.hps.recon.ecal.cluster.CopyClusterCollectionDriver">
  <inputCollectionName>EcalClusters</inputCollectionName>
  <outputCollectionName>EcalClustersCorr</outputCollectionName>
</driver>

<!-- SVT reconstruction drivers -->
<driver name="RawTrackerHitSensorSetup" type="org.lcsim.recon.tracking.digitization.sisim.config.RawTrackerHitSensorSetup">
  <readoutCollections>SVTRawTrackerHits</readoutCollections>
</driver>
<driver name="RawTrackerHitFitterDriver" type="org.hps.recon.tracking.RawTrackerHitFitterDriver">
  <fitAlgorithm>Pileup</fitAlgorithm>
  <useTimestamps>>false</useTimestamps>
  <correctTimeOffset>true</correctTimeOffset>
  <correctT0Shift>true</correctT0Shift>
  <useTruthTime>>false</useTruthTime>
  <subtractTOF>true</subtractTOF>
  <subtractTriggerTime>true</subtractTriggerTime>
  <correctChanT0>true</correctChanT0>
  <debug>>false</debug>
</driver>
<driver name="TrackerHitDriver" type="org.hps.recon.tracking.DataTrackerHitDriver">
  <neighborDeltaT>8.0</neighborDeltaT>
</driver>
<driver name="HelicalTrackHitDriver" type="org.hps.recon.tracking.HelicalTrackHitDriver">
  <debug>>false</debug>
  <clusterTimeCut>12.0</clusterTimeCut>
  <maxDt>16.0</maxDt>
  <clusterAmplitudeCut>400.0</clusterAmplitudeCut>
</driver>
<!-- SVT Track finding -->
<driver name="TrackReconSeed345Conf2Ext16" type="org.hps.recon.tracking.TrackerReconDriver">
  <trackCollectionName>Tracks_s345_c2_e16</trackCollectionName>
  <strategyResource>HPS_s345_c2_e16.xml</strategyResource>
  <debug>>false</debug>
  <rmsTimeCut>8.0</rmsTimeCut>
</driver>
<driver name="TrackReconSeed456Conf3Ext21" type="org.hps.recon.tracking.TrackerReconDriver">
  <trackCollectionName>Tracks_s456_c3_e21</trackCollectionName>
  <strategyResource>HPS_s456_c3_e21.xml</strategyResource>
  <debug>>false</debug>
  <rmsTimeCut>8.0</rmsTimeCut>
</driver>
<driver name="TrackReconSeed123Conf4Ext56" type="org.hps.recon.tracking.TrackerReconDriver">
  <trackCollectionName>Tracks_s123_c4_e56</trackCollectionName>
  <strategyResource>HPS_s123_c4_e56.xml</strategyResource>
  <debug>>false</debug>
  <rmsTimeCut>8.0</rmsTimeCut>
</driver>
<driver name="TrackReconSeed123Conf5Ext46" type="org.hps.recon.tracking.TrackerReconDriver">
  <trackCollectionName>Tracks_s123_c5_e46</trackCollectionName>
  <strategyResource>HPS_s123_c5_e46.xml</strategyResource>
  <debug>>false</debug>
  <rmsTimeCut>8.0</rmsTimeCut>
</driver>
<driver name="MergeTrackCollections" type="org.hps.recon.tracking.MergeTrackCollections" />
<driver name="TrackDataDriver" type="org.hps.recon.tracking.TrackDataDriver" />
<driver name="ReconParticleDriver" type="org.hps.recon.particle.HpsReconParticleDriver" >
  <ecalClusterCollectionName>EcalClustersCorr</ecalClusterCollectionName>
  <trackCollectionNames>MatchedTracks GBLTracks</trackCollectionNames>
</driver>
<driver name="GBLRefitterDriver" type="org.hps.recon.tracking.gbl.GBLRefitterDriver"/>
<driver name="LCIOWriter" type="org.lcsim.util.loop.LCIODriver">
  <outputFilePath>${outputFile}.slcio</outputFilePath>
</driver>
<driver name="CleanupDriver" type="org.lcsim.recon.tracking.digitization.sisim.config.ReadoutCleanupDriver"/>
<driver name="AidaSaveDriver" type="org.lcsim.job.AidaSaveDriver">
  <outputFileName>${outputFile}.root</outputFileName>
</driver>
</drivers>
</lcsim>

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