1 lambdakzeroBuilder

(??? what if not useAbsDCA? is this really all in [cm]?)

- V0
  - min. radius (0.9 cm)
  - min. cos(θ) (0.995)
  - max. DCA between daughters (1.0 cm)
- V0 daughters
  - min. DCAxy to PV (0.1 cm)
  - min. TPC crossed rows (70)

2 HfTrackIndexSkimCreatorTagSelTracks

(cuts on bachelor track)

- quality checks (true)
  - useIsGlobalTrack (false)
  - useIsGlobalTrackWoDCA (false)
  - min. TPC found clusters (70)
- min. p_T (0.3 GeV)
- max $|\eta|$ (0.8)
- DCAxy ($p_T < 2$ GeV: 0.0025cm < DCAxy < 10cm,
  $p_T > 2$ GeV: 0cm < DCAxy < 10cm)

3 HfTrackIndexSkimCreatorCascades

- candidate
  - max. $|m - m(\Lambda_c)|$ (1.0 GeV)
  - min. p_T (0 GeV)
  - max. R (200 cm(?))
- bachelor
  - TPCrefit (true)
  - min. TPC crossed rows (50)
- V0
  - max. $|m - m(K^0_S)|$ (50 MeV)
  - min. cos(θ) (0.995)
- V0 daughters
  - TPCrefit (true)
  - min. TPC min. crossed rows (50)
  - max. $|\eta|$ (1.1)
  - min. p_T (0.05 GeV)

4 HfTrackIndexSkimCreatorCascades

(TODO: set magentic field from CCDB !!!)

- max. R (200 cm(?))
- max. dZ (4 cm(?))

5 HfCandidateSelectorLcToK0sP

- candidate
  - p_T ($1\,\mathrm{GeV} < \mathrm{p_T} < 24\,\mathrm{GeV}$)
- bachelor
  - min. p_T (0.5 GeV - 1.0 GeV)
  - max. DCAxy (0.05 cm - 0.2 cm)
  - PID (true):
    - max. $|n\sigma^{\mathrm{TPC}}|$ ($p < 1$ GeV: 2, $p > 1$ GeV: ∞)
    - max. $|n\sigma^{\mathrm{TOF}}|$ ($p < 1$ GeV: ∞, $p > 1$ GeV: 3)
- V0
  - min. p_T (0.6 GeV - 1.9 GeV)
  - max. DCAxy (∞)
  - max. $|m - m(K^0_S)|$ (8 MeV - 19 MeV)
  - min. $|m - m(\Lambda)|$ (5 MeV)
  - min. $|m - m(\gamma)|$ (100 MeV)
- V0 daughters
  - min. p_T (0.3 GeV - 0.4 GeV)