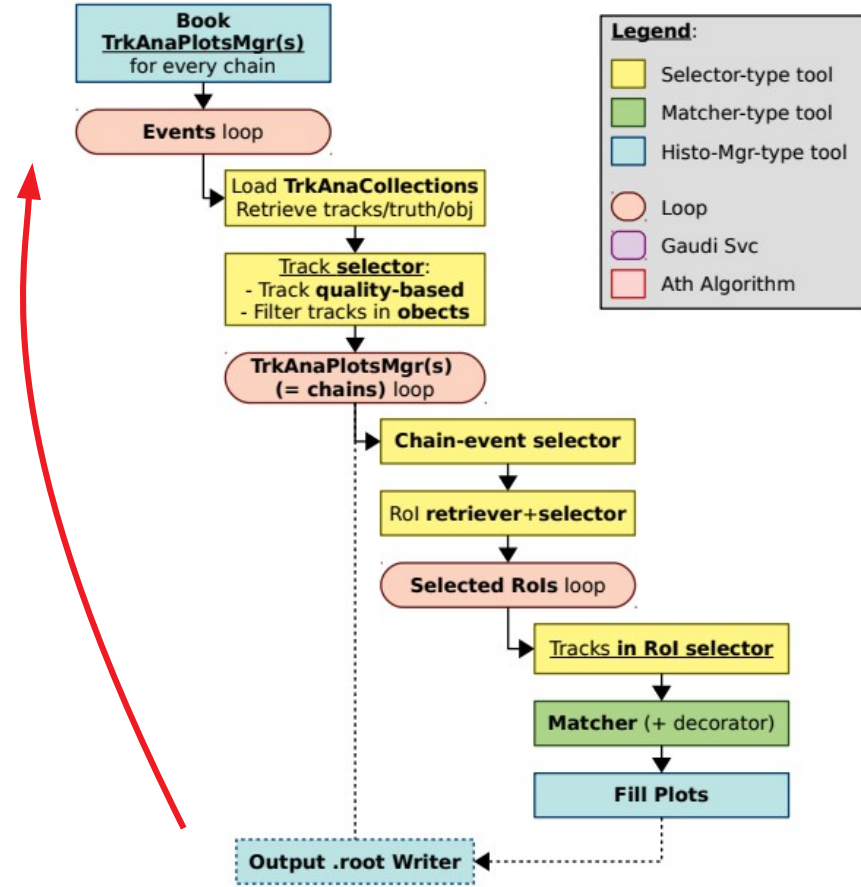


- Other updates in [TrackCP](#), [IDTrigger](#) and [EFTrack](#) meetings
- Other than hist.root file, also produce **“slim” AOD with simplified structure**  
→ can be **re-used as input** to IDTPM for reprocessing
- Need to store:
  - Main collections
  - Simplified trigger navigation structure
  - Test-reference info



- Initial implementation: look-up tables
  - Matches stored in `std::maps` of **pointers** of tracks and truth particles
  - “reverse matches” (reference → test) in vector of pointers of test tracks
- Match info **permanent** in StoreGate
  - Maps → **xAOD decorations** (names set in configuration) for each track/truth
  - Pointers → **ElementLinks**
- Save info on chain/Roi navigation
  - For every track/truth decorate with **maps between ChainRoiString and corresponding matches**
  - Storing info for all matches in trigger navigation in the **same collection**

TEST → REFERENCE:

Test track decoration =

```
std::map< std::string chainRoiName,
         ElementLink< xAOD::TruthParticleCollection > >
```

REFERENCE → TEST:

Reference track decoration =

```
std::map< std::string chainRoiName,
         ElementLink< std::vector<xAOD::TrackParticleCollection> >
```

Decoration name = “testToRefLink\_<TrkAnaName>”

“refToTestLink\_<TrkAnaName>”

ChainRoiName = <chainName>(\_Roi\_<iroi>)