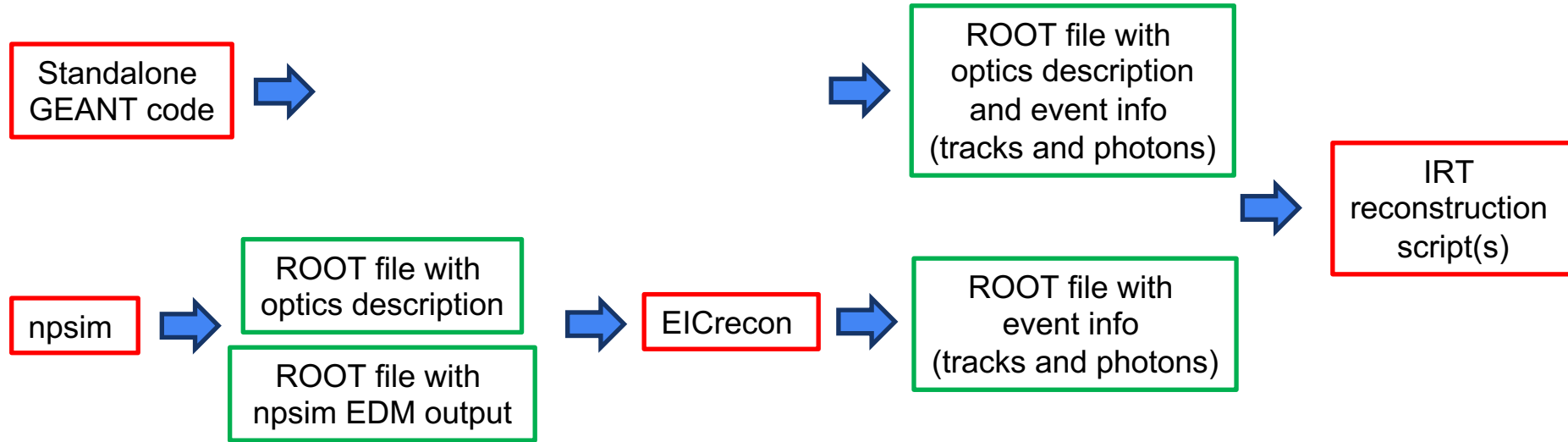


Present status of QRICH implementation

- IRT 2.0 reconstruction factory input emulated in full (tracks, photons), except for
 - Calibration pass (missing, but see the last bullet)
 - Aerogel properties (defined as uniform across a limited wavelength range)
 - HRPPD QE (defined as a constant providing $\langle N_{pe} \rangle \sim 10-12$ in this wavelength range)
- Missing parts of the required machinery extracted from dRICH codes
 - ACTS track parameterization at the aerogel location
 - Sensitive volume cell index description and usage
 - Several other things appeared to be of a limited use (geometry, digi, MC->reco logic)
- Event tree exported into a separate ROOT file a la standalone code (next slide)
 - From this point on all the scripts developed for standalone code can be used

Intermediate setup for debugging



- Path shown in the bottom chart is in a debugging stage now
- Once this is done and dressed up for QRICH (aerogel properties, QE, etc), the remaining work is naturally split into two independent directions
 - (1) Migration of IRT script contents back into EICrecon plugin (+ calibration input) ...
 - ... at which point one may think of a data model
 - (2) Implementation of pfRICH (and then dRICH) optics in pf(d)RICH_geo.cpp