Preparations for mass reconstruction

- ➤ Talini Pinto Jayawardena has extended Frank's steering file to run the

 Vertex Package with its current parameter settings on multiple sets of input

 (jet-)RP collections → see her post to ILD software discussion list of 6th May
- > a new tag of LCFIVertex will be provided by the end of the week:
- LCFIVertex v02-02 does not compile due to a wrong variable name in LCFIAIDAPlotProcessor,
 corrected in the HEAD version
- this processor is currently incompatible with RAIDA; this is being fixed for the new tag
- Victoria Martin has also been working on further diagnostic tool for vertexing: tables showing the purity of track-to-vertex association; this will be finalised on same time scale
- > please include the new version, run with the steering file, in the tests of the full chain for mass reconstruction

Further plans

LCFI is working on a tuned configuration of the Vertex Package:

- \succ Kristian Harder is making progress with processor to identify tracks from photon conversions, K_S and Λ decays, so these can be removed before running ZVTOP
- > current release version removes these for the calculation of the flavour tag inputs
- > Comparisons with Kristian's identification processor shows current procedure is already very efficient
- > Roberval Walsh is working on parameter tuning and network retraining:
- track selection for IP fit and vertex finder ZVRES nearing completion
- tuning of parameters for ZVRES about to begin
- will need to be redone when Kristian's processor has been finalised
- Roberval will show detailed results from these studies at ECFA workshop in Warsaw