



# Status on p19.L3.00 testing for Level 3 Jet Confirmation Filter

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- **Tested the filter with “out of box” option**
- **No addition of packages required**
- **No executables required etc**
- **No local build etc.....option**
  - **Applies only to running d0trigsim**
    - **Copied trigsim/level3.sim file into p19.L3.00 – failed**
    - **From Per: forgotten to update my level3.sim file with the new I1 confirmation for the jet tool**
    - **Worked fine after this correction**
- **Goal was to be able to reproduce/check the functionality of the code as expected using p19.L3.00**

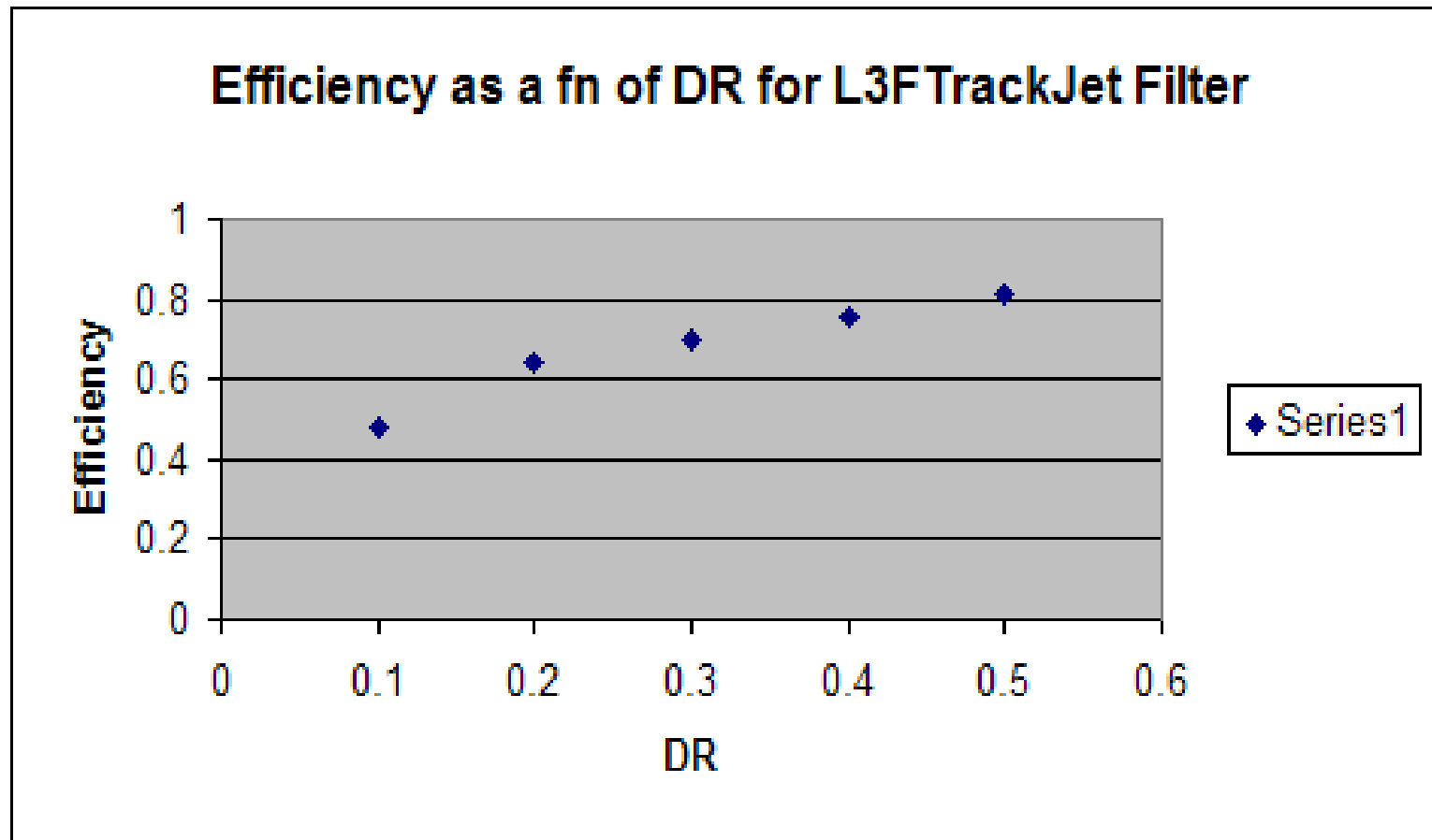


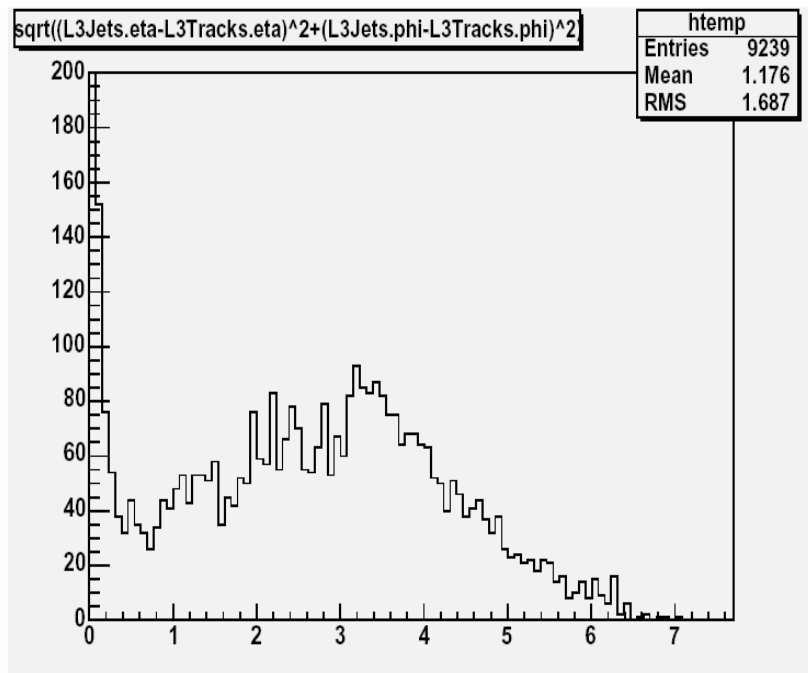
- I used the same data file
- The raw data files from the special v14 L1L2 run at:  
`/prj_root/1161/I3_write/mverzocc/RAW`
  - Run # 204974, 1989 events
  - Got the DST file: `outputfile_00`
- To get the root file, run TrigSimCert
  - Was not so trivial with the “out of box option”
  - Made an executable for `trigsimcert`
  - Set the `L3chunkchoice` to `offline` in `CertAnalyze.rcp`
  - Used the `localfwkrpc`, `localrcp` and `rcp` options
  - Referred to Camille’s page



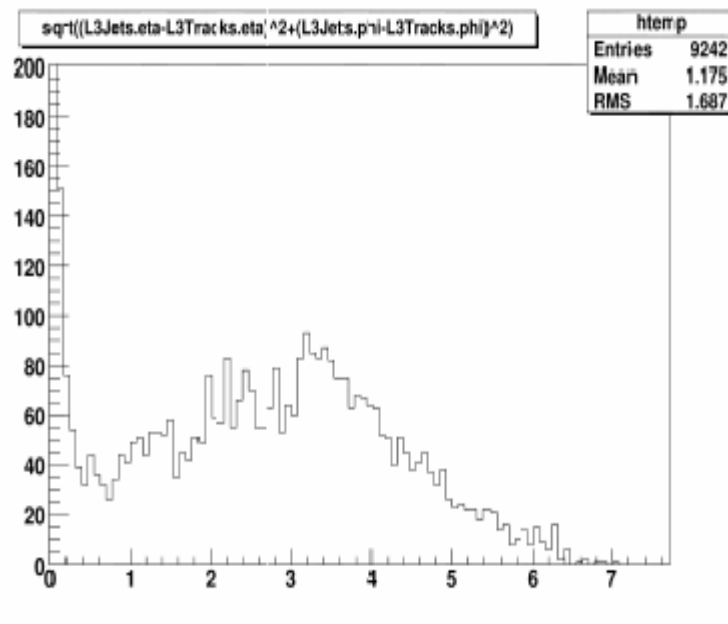
- No of input and output events in sequence
  
- Track Filter: **1989**, **1984** (99.8%)
- Jet Filter: **1984**, **1487** (75%)
- TrackJet Filter : **1487**, **1174** (79%)
  - Comparable to previous results for  $dR = 0.5$
  
- **Blue: Input events**
- **Red: Output events**

# Filter Efficiency using p17.05.01

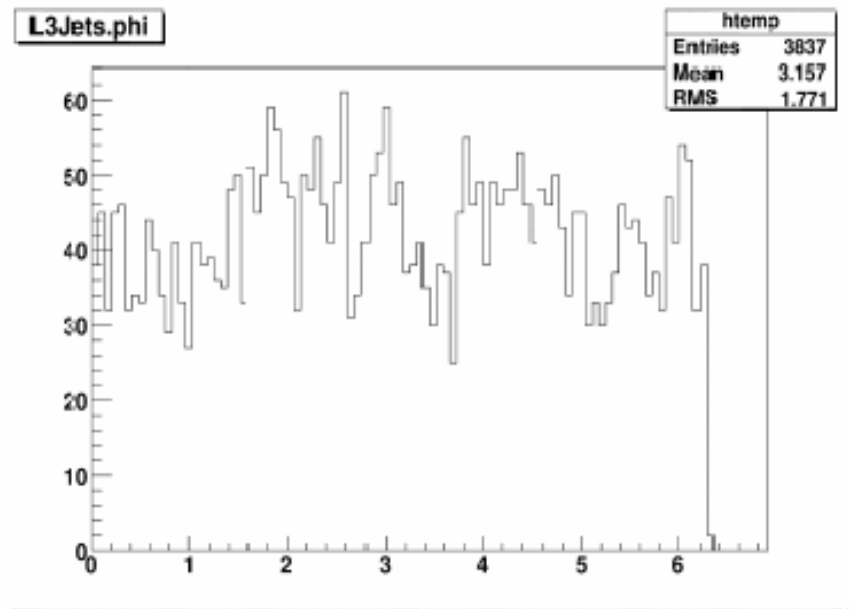
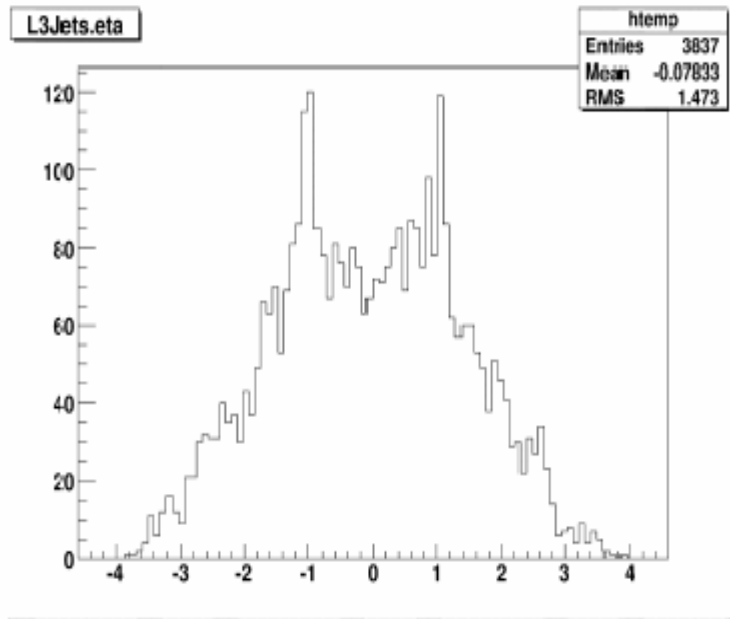




**P17.05.01**



**P19.L3.00**





➤ **Next immediate step**

- **Check the code with Ray's new tracking code**
- **Instructions in his talk at the Dec. Collab. Meeting**
- **Produce relevant plots**

➤ **Make changes to the code**

- **The PV match has to be done with a cut on the distance between PVZ and Z0.**