S.G.
TOF MEETING
11.15.2001

PRODUCTION MONITORING
(RUN PREPARATION REPORT...)

- CURRENT READINESS STATUS:

  - BASIC VERSION READY
  - WAS RUNNED TOGETHER PRODUCTION ON RECENT DATAS
  - VALIDATION HISTOGRAMS AVAILABLES
  - ROOT MACRO TO LOOK AT THEM READY

  (... THIS WILL BE THE VERSION FOR THE START OF NEW RUN)

- EXPECTED IMPROVEMENTS:

  - MORE SENSIBLES HISTOGRAMS:

    ↳ INPUT FROM THE "INVOLVED" PEOPLE
    - HV VALUES (AFTER STORED IN DB) (Kojii...)
    - CALIBRATIONS (" ") (Ivan/Paolo/Gaudio..

    ↳ WHAT IS/ARE THE "FIGURE OF MERIT" FOR EACH TOPIC TO DISCOVER PROBLEMS?

  - ONLINE HISTOGRAMS / RECONSTRUCTED QUANTITIES HISTOGRAMS ALREADY IMPLEMENTED.

Time schedule ... after quantities in DB ... 3 weeks -

- RUNNING PLAN IN NORMAL OPERATIONS:

  - HISTOGRAMS AUTOM. PRODUCED FROM PRODUCTION
  - OUTPUT IN:

    FCDFLNX1

    /cdf/scratch/cdfprod/<PRODRELEASE>/

    /<STREAM>/hist/xxx_hist_<RUN NUMBER>.root

  - CAN BE ANALIZED WITH THE ROOT MACRO (HISTOGRAM SCIDEE):

    ..../TofMods/Test/TofValidationDisplay.C

  - USE:

    >root

    >.L TofValidationDisplay.C

    >TofValidationDisplay("<HISTOFILE>")

    → will create TofValidationDisplay.ps with the TOF histograms.

  - WHO WILL RUN TofValidationDisplay.C ?

    NOW: S.C. + PAGERS

    Long Term: OFFLINE SHIFT CREW ??

-

- PROCEDURE / ORGANIZATION FOR RESPONDING TO PROBLEMS:

if (SOME HISTOGRAMS LOOKS "STRANGE") {

- SEE THE OFFLINE VALIDATION WEB PAGE. (*)

if (THE PROBLEM IS NEW) {

- CALL THE TOF EXPERT INVOLVED;

}

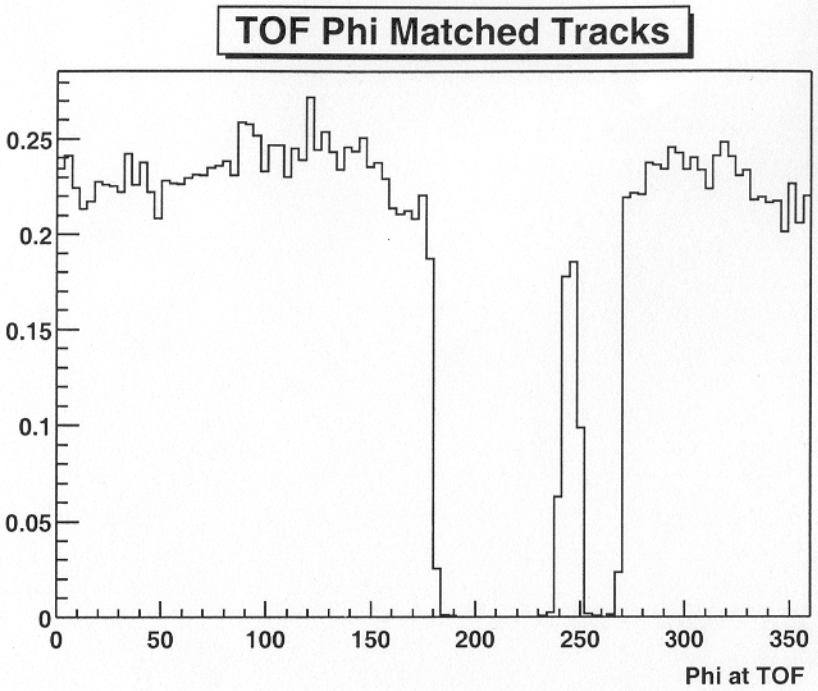
}

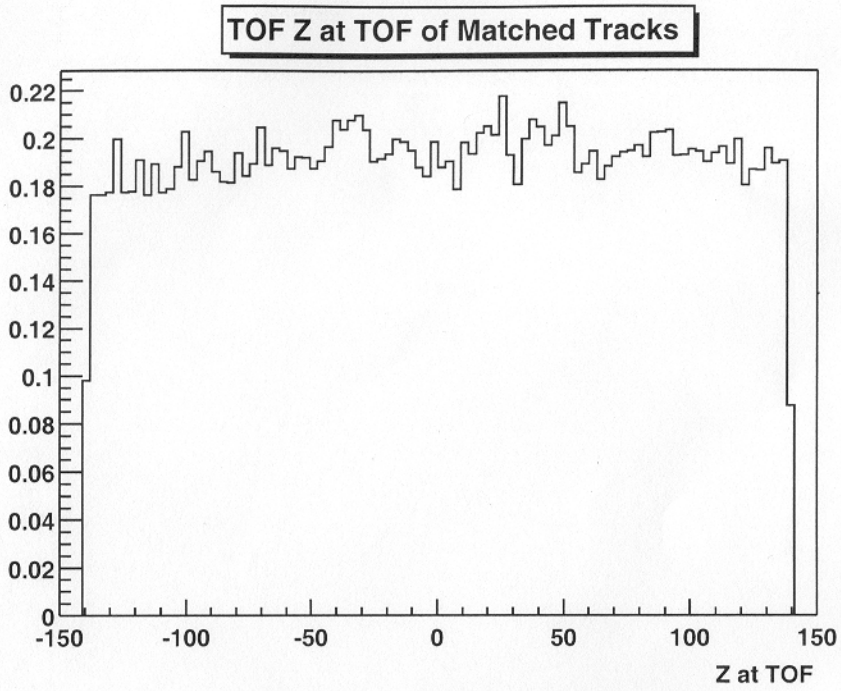
(*) DOCUMENTATION:

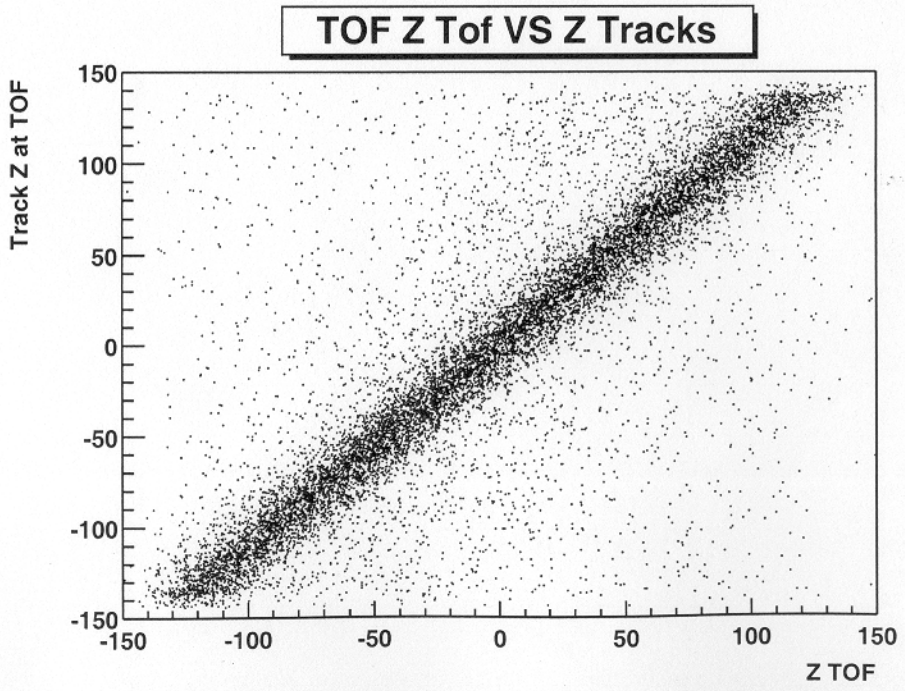
I'M WRITING A SIMPLE WEB PAGE (TOF-YMON CLING) REPORTING:

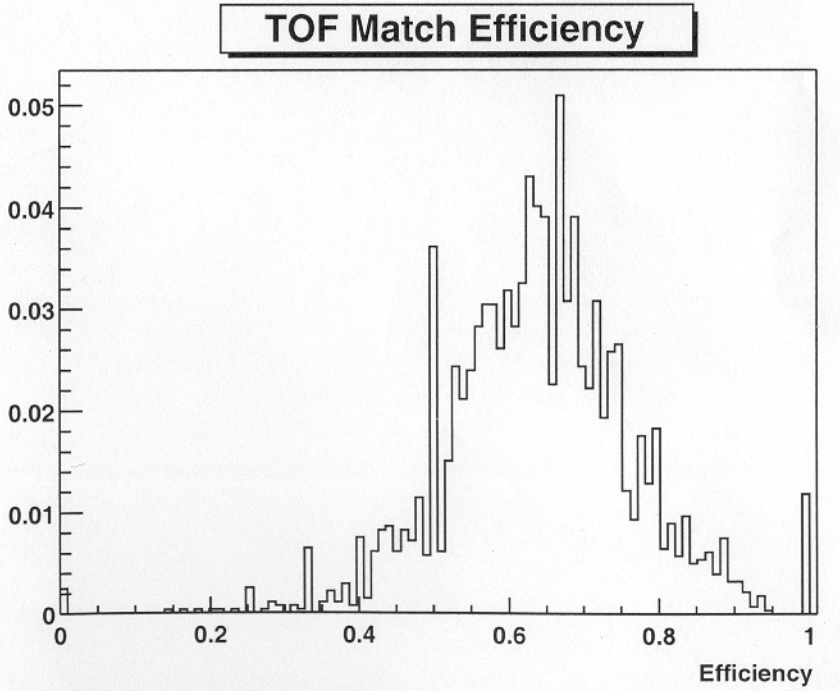
- HOW-TO TO USE TofValidationDisplay
- REFERENCE PLOTS
- ALREADY KNOWN PROBLEMS
- .....

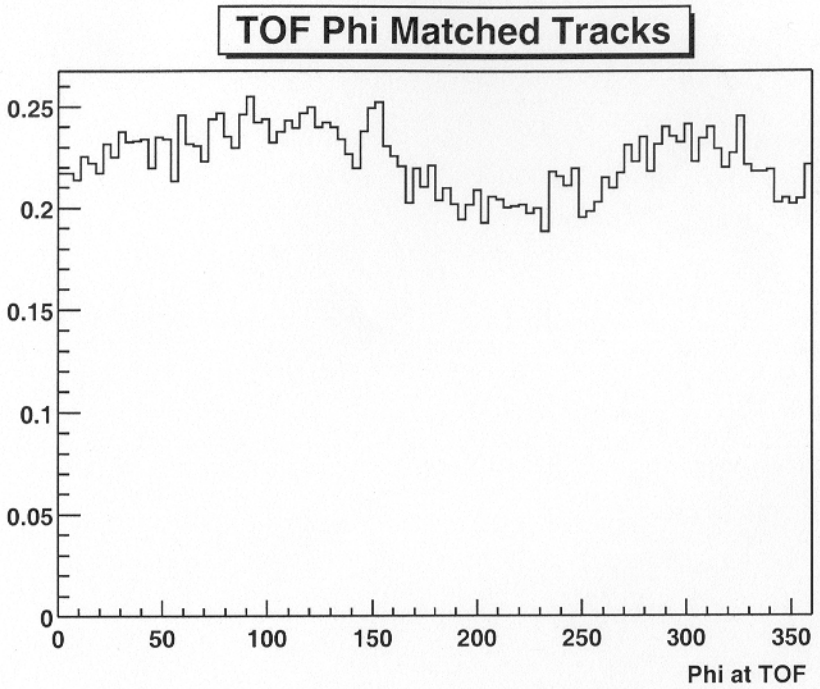
- TIME TO BE READY ~ 1 WEEK.

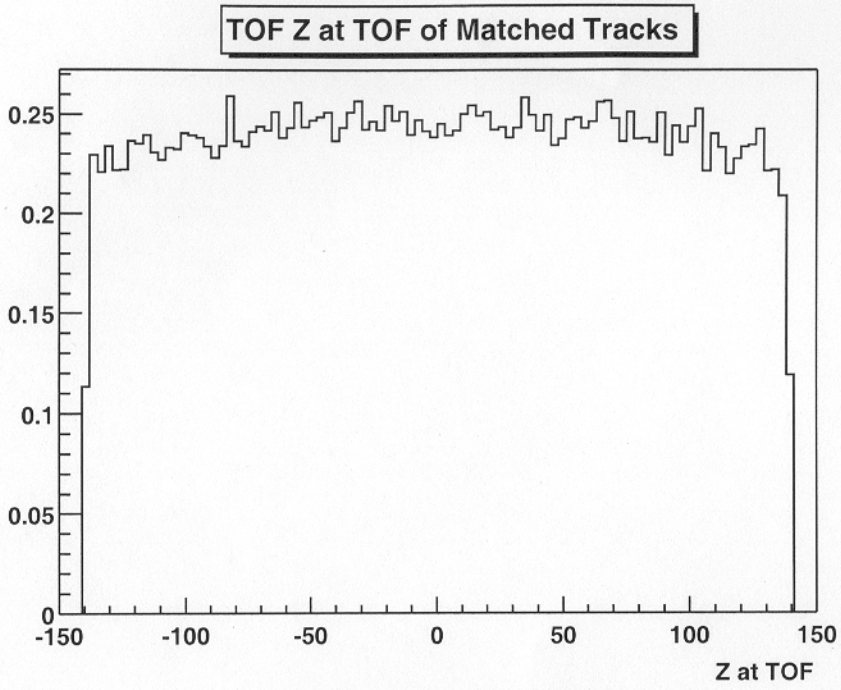

TOF Phi Matched Tracks
0.25
0.2
0.15
0.1
0.05
0
0
50
100
150
200
250
300
350
Phi at TOF

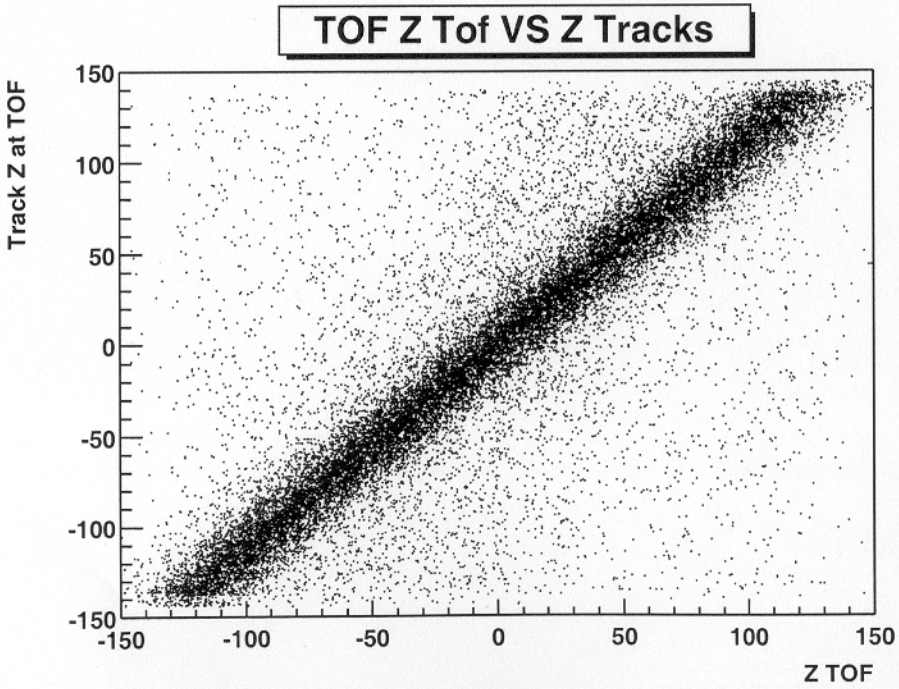

TOF Z at TOF of Matched Tracks
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
-150
-100
-50
0
50
100
150
Z at TOF

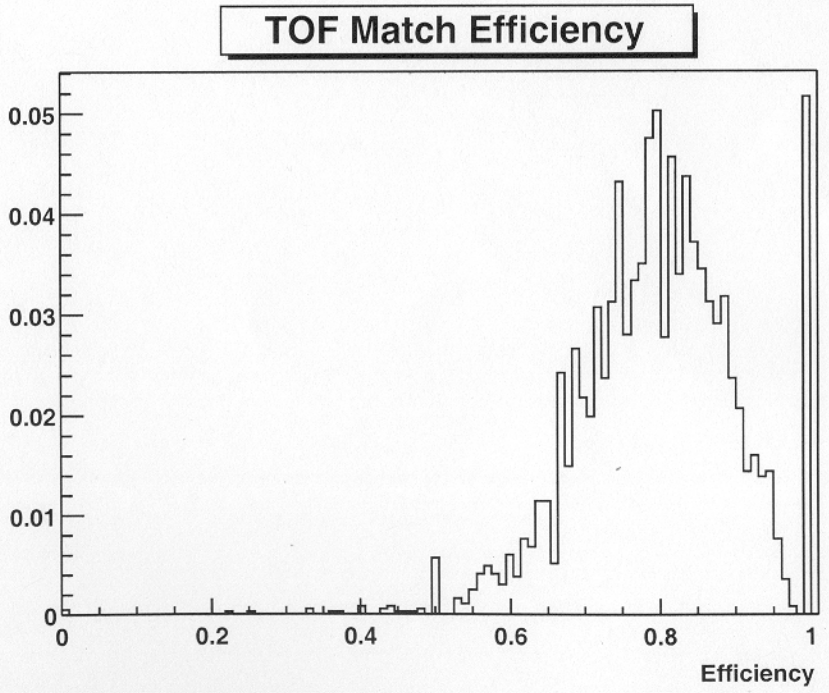

TOF Z Tof VS Z Tracks
Track Z at TOF
150
100
50
0
-50
-100
-150
-150
-100
-50
0
50
100
150
Z TOF


TOF Match Efficiency
0.05
0.04
0.03
0.02
0.01
0
0
0.2
0.4
0.6
0.8
1
Efficiency

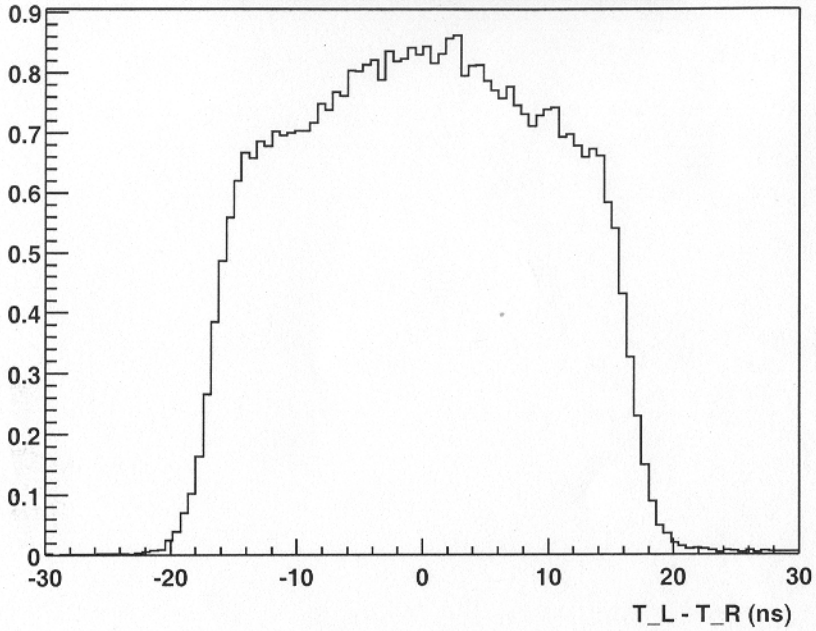

TOF Phi Matched Tracks
0.25
0.2
0.15
0.1
0.05
0
0
50
100
150
200
250
300
350
Phi at TOF


TOF Z at TOF of Matched Tracks
0.25
0.2
0.15
0.1
0.05
0
-150
-100
-50
0
50
100
150
Z at TOF

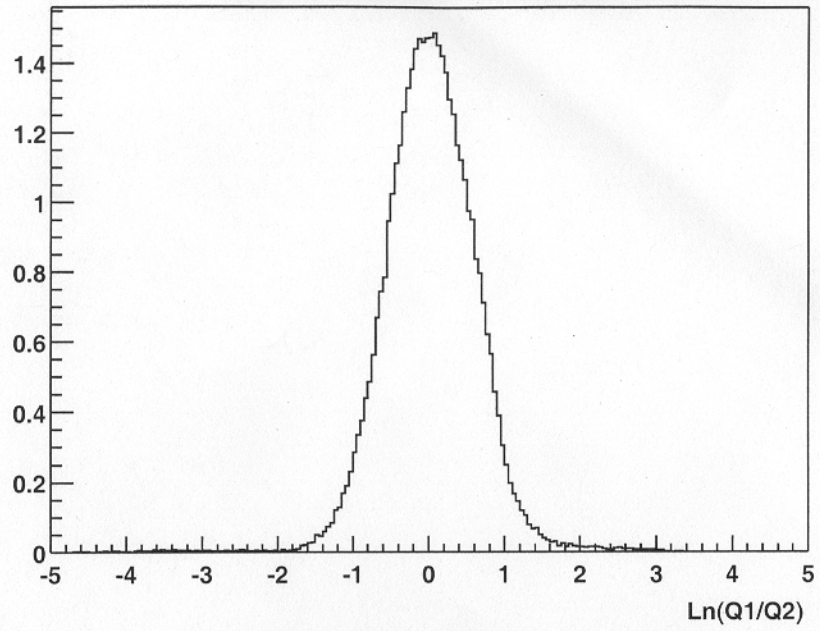

TOF Z Tof VS Z Tracks
Track Z at TOF
150
100
50
0
-50
-100
-150
-150
-100
-50
0
50
100
150
Z TOF


TOF Match Efficiency
0.05
0.04
0.03
0.02
0.01
0
0
0.2
0.4
0.6
0.8
1
Efficiency

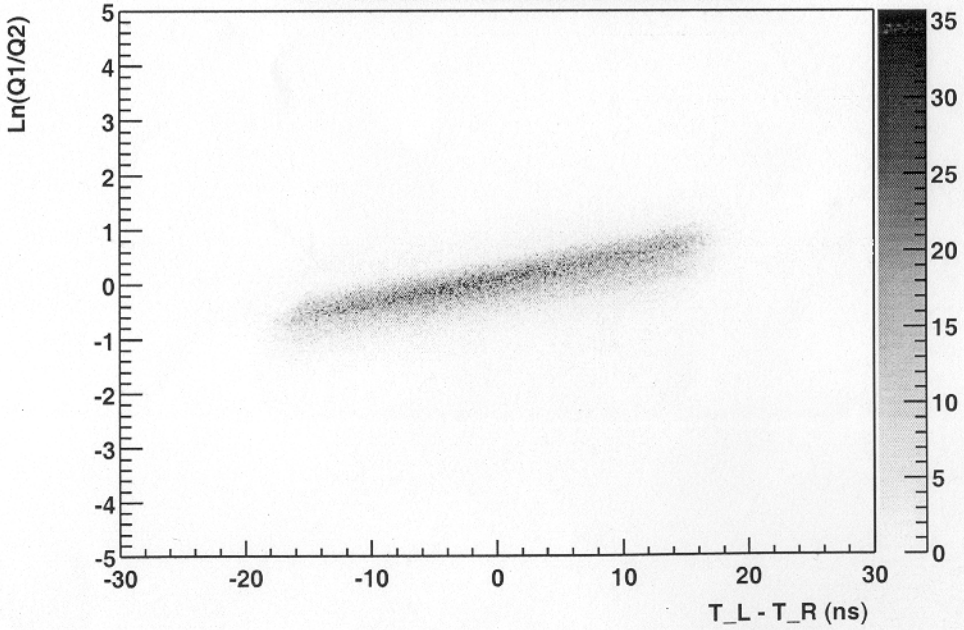
TOF Distribution of TL-TR



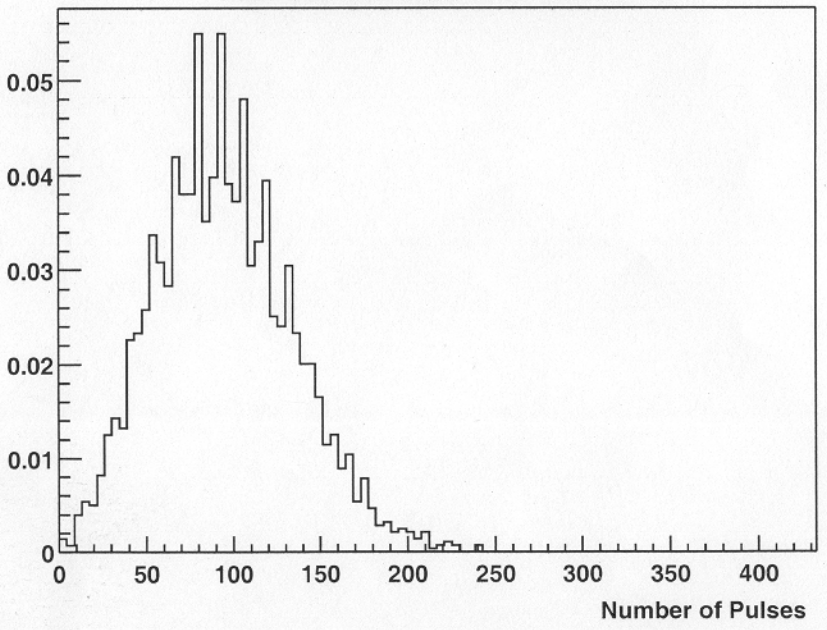
TOF Distribution of ln(Q1|Q2)



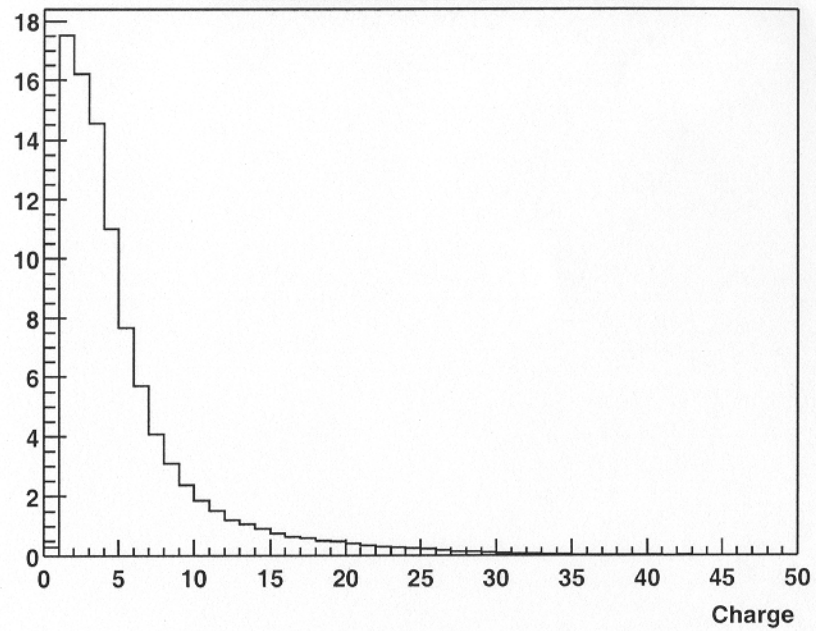
TOF Time-Charge Correlation



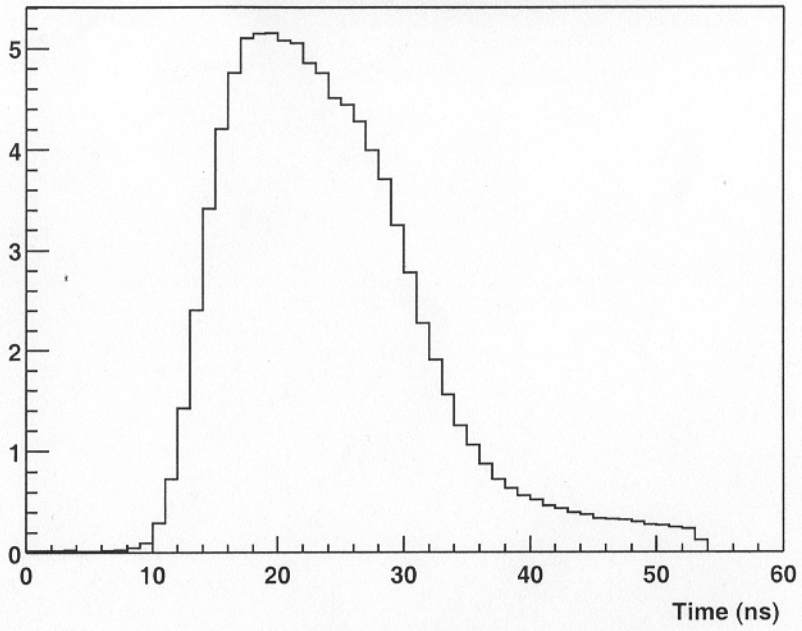
TOF Number of Pulses per event



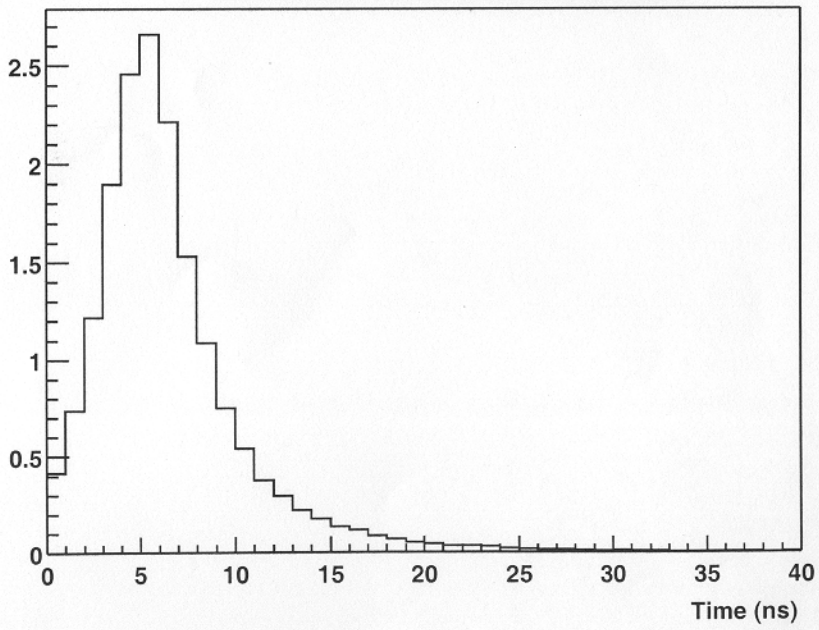
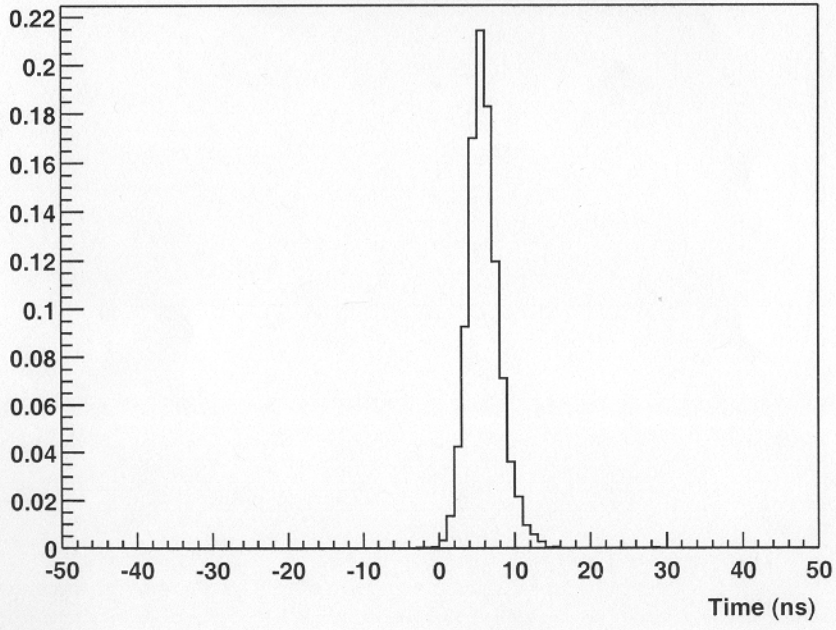
TOF Charge Distribution



TOF Time Distribution



TOF Time-of-Flight Distribution



TOF Event T0 Distribution