LQ Mass Analysis
Status Update

Gordon “I’m not packed yet” Watts
4-4-97
NP Meeting

Work in progress

You can find all of this talk on WWW:

http://d0sgi0.fnal.gov/gwatts/talks/
Bug Fixes

- Mass distribution had a bump at twice the generator mass as well as the generator mass.
  - In data this was due to a bug
  - In MC this was due to a bug and some unresolved issues with data/mc jet matching.

John’s $\delta m$ cut can be made tighter (see next page).
• As several of you have requested (and I have said), I am going to explore other methods of cutting, on the fit $\chi^2$ for example

• The mass peak is closer to the input mass than the mass calculation John used; I’m in the process of calculating the slope.

• I’ve given Jeff instructions on how to get started using mass fitter.

• Rich P. has found fixed a few more bugs in the internals of the fitter and is preparing a new version for release.
The $\delta m$ Cut

- The upper is with the fitter. Note the peak is tighter.
- The lower plot is $\delta m$ calculated analytically.