MYSQL DATABASE

- Database stores run information such as:
  - General run information(P0, Energy, HWP Status…)
  - Target Information (position, polarization…)
  - Event information (number of events, rate…)
- Sorted into tables based on either LHRS,RHRS,TA
  - Then sorted by run number
- Entries automatically filled upon run start/stop
- Summary of tables currently posted to wiki
  - THANKS KARL!

MYSQL DATABASE

- Currently hosted on adaql10 but need to
  - Transfer over to Jlab server for ifarm access
  - Also possible for students to dumb database to own PCs
- Want to create scripts/libraries that will integrate mysql into analysis scripts
  - Create specific analysis tables that include
    - PID Cuts, Normalization Info, etc.
- Need to go over old database info and confirm its correct
  - Also fill in good run categories as well as specific run type
    - Created new column for run type flag

NORMALIZED YIELDS

- Yields are currently normalized to:
  - Prescale
  - Livetime
  - Number of incident electrons
  - Multi-track efficiency (basic)

NORMALIZED YIELDS

- LIVETIME:
  - Determined by combination of scalers,trigger bit pattern and prescale
    - Scalers give total number of triggers
    - Bit pattern is total number of accepted

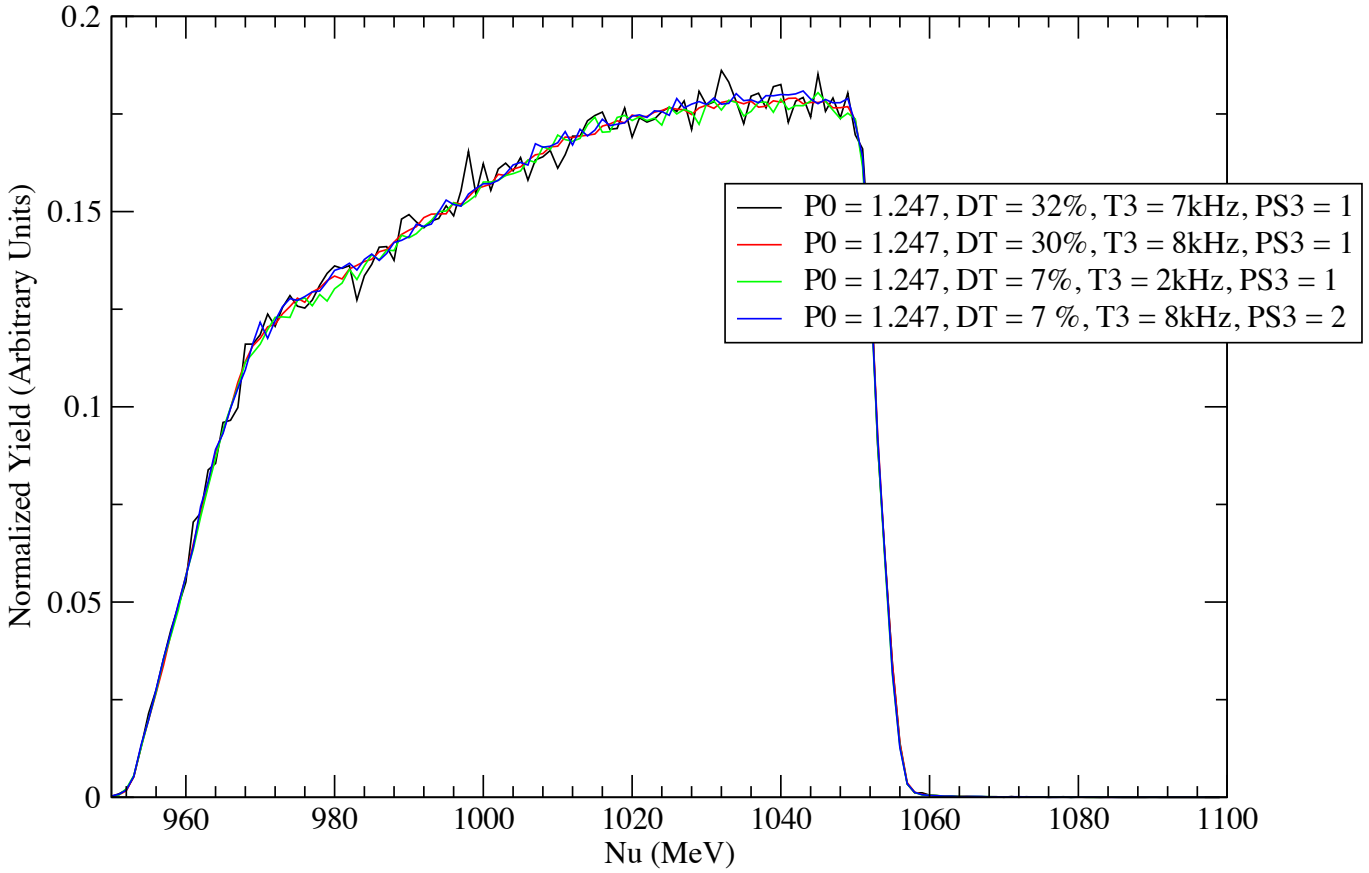
NORMALIZED YIELDS

- CHARGE:
  - Determined by combination of BCM counts, clock counts and calibration constants

NORMALIZED YIELDS

- GOOD ELECTRON CUTS:
  - Single VDC track
  - Single VDC cluster
  - DP,Theta,Phi,Y_Target
  - Pion Rejector Sum, Cerenkov Sum
- Multitrack efficiency is defined as:
  - Events with multiple tracks that pass PID cuts

NORMALIZED YIELDS



NORMALIZED YIELDS