

# MicroBooNE Good Runs Database

Nick Graf  
University of Pittsburgh  
8/13/2015

# Concept

- After completion of each run, query Slow Monitoring Database to detector configuration within appropriate time window.
  - Python script
  - Coupled to DAQ/EDAnalyzer?
  - Could use RunConfig DB to get start/end timestamp of each run
- Use Slow Monitoring info to determine global and sub-system good/bad status.
- Examples of sub-systems we may want to check. Not a complete list.
  - Drift HV
  - TPC bias voltage
  - Rack Electronics
  - Beam Data
  - Cryo status (purity?)

# Things To Consider

- Which SlowMon variables need to be checked? What should the criteria be for Variable/Sub-system/Global Good/Bad status?
  - Some may just be on/off
  - For others there may need to be a threshold value
  - How should status of each variable affect sub-system status, and in turn how should that affect global status?
- Alternative ways of viewing Detector Status?
  - Are there useful things that can be done with a partial detector?
  - Tag runs as Good for Physics, Good for some special study, etc.
- **Need input from Detector Sub-system Experts and Physics Conveners**

# Things To Consider

- What if status changes during run? (e.g. HV trip)
  - Could have multiple entries for a given run with a timestamp indicating when change first noticed by Slow Monitoring
- What if we decide to change threshold/criteria?
  - Remove old entries or keep them and sort out most recent