Status of PRS/Muon Activities

D. Acosta
University of Florida

Work toward the “June” HLT milestones
US analysis environment

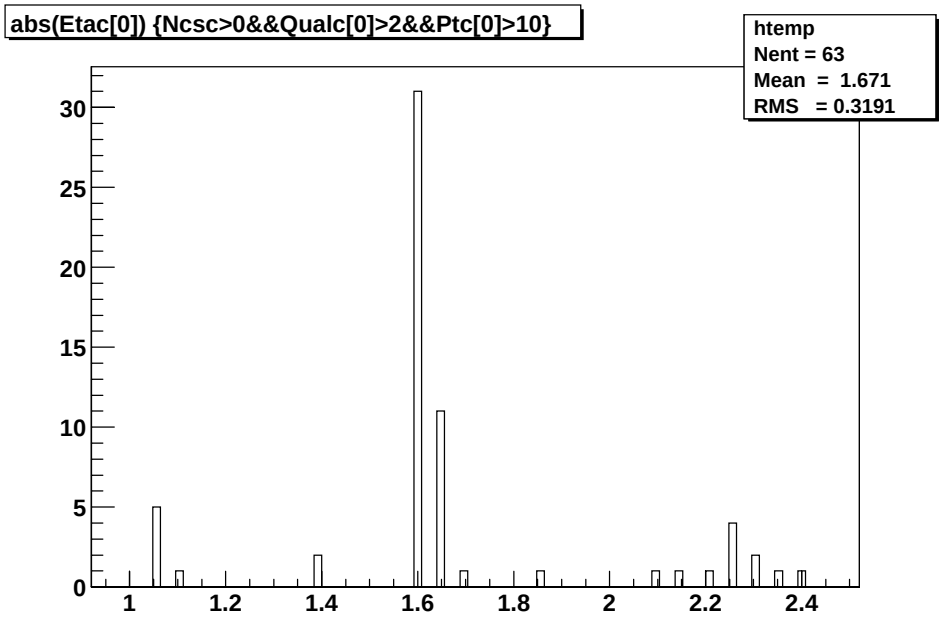
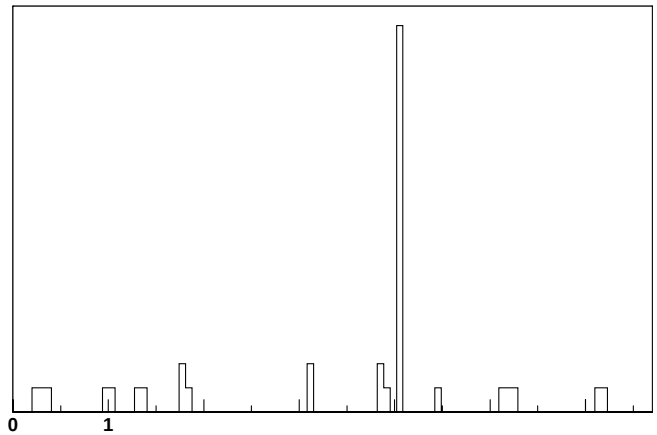
HLT Milestones

The June HLT milestones are:

- **Complete HLT selection for high-lumi scenario**
- **HLT results on B physics**
- **CPU analysis for high lumi selection**
- **Repeat on line selection for low-lumi**

Must have results in DAQ TDR by September!

We don't have these results yet, but the current status and L1 results were reported at the June CMS Week

- **HLT Muon code had severe crashes, infinite loops, and memory leaks that prohibited collecting any statistics on our HLT algorithms**
- **After monumental debugging effort, crashes traced to incorrect use of "ReferenceCounted" objects**
  - **User must never delete, even if performed new!**
- **In L1 results, rate spike appeared at $|\eta| = 1.6$**
  - **New holes in geometry?**
- **Problems were "fixed" for ORCA_6_2_0 release**

L1 CSC Rate Spike