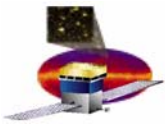


Proposal for Merit Use: Instrumental Info



- **Background**
 - SVAC asked to include 14 variables' worth of GEM info in Merit
 - Flagged during F2F Managers' meeting for resolution
 - Arbitration with Steve last Thursday afternoon
 - Steve to send out summary shortly
 - To be further discussed here
 - Luis has been asking where to put Trigger-checking code
 - SVAC has instrumentation ntuple for instrument diagnostics
- **TriggerAlg**
 - Currently calculates Trigger from digis
 - Not correct since Trigger uses different threshold from readout
 - In the fullness of time we should fix this
- **Checking Trigger**
 - Will be essential check of real trigger to see if we can reproduce it as much as possible



Proposal

1. **Make the SVAC instrumentation ntuple a “feature”**
 - **Get experience from it over this coming year**
 - **Put all instrument diagnostics in there**
 - **Tree-friend it with Merit**
 - **Ensure they stay in lock-step**
 - **Add GEM summary word to Merit; the rest to SVAC**
 - **Don't need to change analysis code between data/MC**
2. **Add Trigger Check code**
 - **Run for data and MC**
 - **Output into instrumentation ntuple**
3. **Update TriggerAlg to better mimic trigger**
 - **Give access to trigger thresholded data**
 - **Have it output GEM formatted summary word**