

~~Consider~~ **work to be done for MCC6**

Eric ~~3-December-2014~~ **15-January-2015**

Data is imminent

- Data will soon be upon us
 - commissioning data in Feb/March
 - real data soon after
- This will be our last MCC, we presume before data taking
- We would like to be running MCC6 by end of January

What motivates MCC6?

- new data products
 - **raw::Digit, recob::Wire, Hit, Cluster**, Track (**today: Baller, Asaadi, Ketchum...**)
 - sim::MCShower, MCTrack, ...
- Recon work
 - Pandora changes that just missed MCC5 + lots more Pandora work since
 - ClusterCrawler, Tracker suite
 - new Shower work **ported from LArLite into LArSoft**
 - Lots of great cosmic removal work since September
- Simulation work
 - Garfield-inspired Wire simulation
 - non-uniform E-field
 - new geometry (**update from Hackenburg, 22-Jan**)
 - new photon lookup library (**update from Touns, 22-Jan**)
 - recommended electronics settings (**ongoing from Jyoti, BNL**)

MCC6 motivation, 2

- Vetted, leaner MCC6 AnalysisTree with the imprimatur of the AT group
 - **with metadata?**
- LArSoft LiteScanner module to produce LArLite data in MCC6 Production
 - **with metadata?**
- New (changes to) Samples
 - **prodsingle low energy muons** (refine definition of this sample from Josh)
 - **dirt g4 bnb/numi fcl file includes new AuxDet counters**
 - (The post-G4 filter only allows 4% of BNB GENIE events now down from 20%)
 - **cosmics with better bounding box solutions**
 - **cosmics with non-uniform E-field** (if they make the deadline we need BNL presentation. And do they want single muons or single+cosmics?)
 - **cosmics with induced neighbor wire charge** (single + cosmics, Leon requests)
 - **Yun-Tse wants a low energy prod single electron + cosmic overlay**
 - **Sowjanya wants single K+/-'s back on the list**
 - **Kazu advocates single gammas/electrons (DAR Kaons too?) come from a 2D histo (or something) rather than flat**