HPC & Cloud Discussion Topics

Some items to kick off discussion

- What can ATLAS and CMS do together in the HPC space? The Cloud space?
- Are there any unique capabilities provided by HPCs or Cloud that we aren't taking advantage of, but could be?
- Does it make sense to try to extend our Analysis Facilities with Clouds, HPCs?
  - Hybrid facilities? On-demand GPUs etc?
  - Think of some way to tie people doing ML into HPCs that are GPU-heavy?
- Should we try incorporating "green" cloud computing e.g. Lancium?
  - Is there benefit in the "green" part, or is it simply cheaper cloud cycles?

Some items to kick off discussion. Cont'd

- If/when we can integrate HPC/Cloud into pledges (which goes beyond the scope of this discussion), what is the right resource mix going forward, assuming we have a choice ?
  - Apart from cost factors and workload restrictions, HPC/Cloud could be loss of control/expertise vs. on-premise
- What experience we have ? What experience we need to gain ?
- What are major advantages and risks to use commercial clouds ?
- What is our timeline ?