USQCD All-Hands Meeting 2014

Report from the Scientific Program Committee

Robert Edwards

Scientific Program Committee

Will Detmold

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Anna Hasenfratz (replaced Simon Catterall)

Taku Izubuchi

Peter Petreczky

Doug Toussaint

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Allocation process

The Scientific Program Committee (SPC) advises the Executive Committee (EC)

- The SPC advises the EC on science priorities for USQCD
- The SPC recommends projects for leadership resources
- The SPC suggests to the EC allocations of computer time on the USQCD facilities (FNAL +JLab+BNL) as well as INCITE

2014-2015 call for proposals

- USQCD facilities:
  - BNL BG/Q: 71M BG/Q core-hrs
  - Clusters: 397M Jpsi core-hrs
  - GPUs: 8.9M Fermi/Tesla GPU-hrs
- CY2015 INCITE [estimate based on current CY2014]
  - ANL: 240M BG/Q core-hrs
  - ORNL: 100M XK7 core-hrs

- New time-frames
  - Call only for Type A proposals.
  - Type B can be requested at any time of year

Proposals 2014-2015

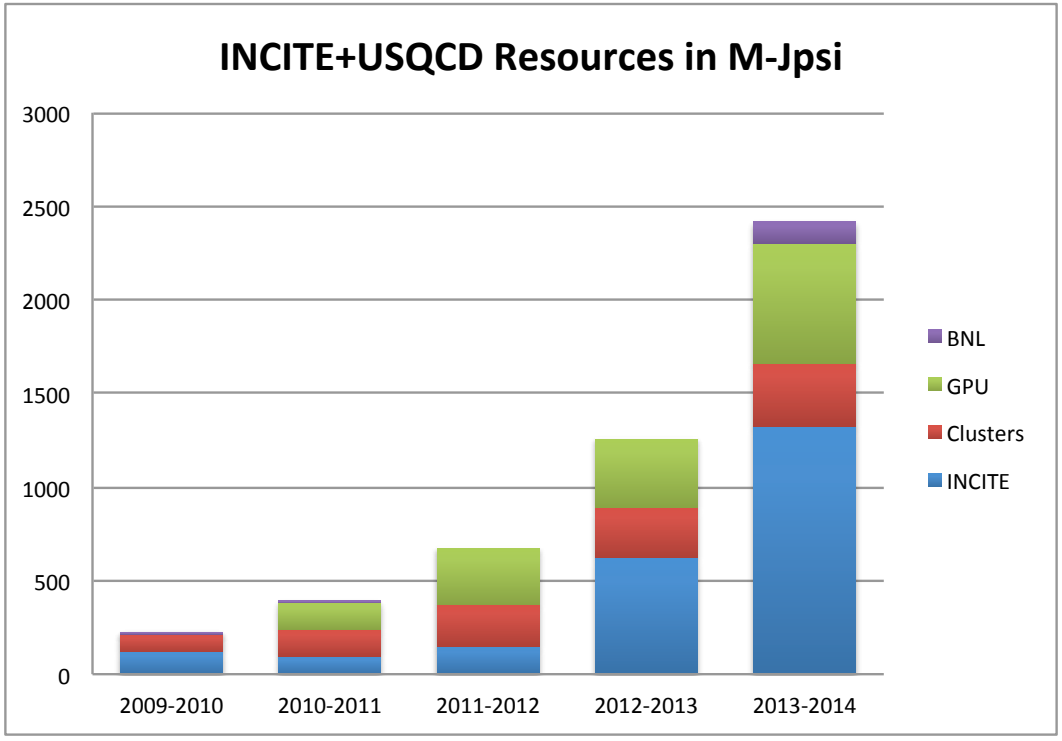
- 27 Type-A proposals (same as last year, 24 in previous year)
- 5 Type-B proposals under new system (3 last year)

- Subscription for new proposals
  - 1.05x to 1.91x over-subscribed
  - Over-subscription smaller than in previous years

- SPC now attempting to rationalize availability across all resources
  - Using conversion factors to put in M-Jpsi

Available resources

- Different machines & capabilities
- Attempt to normalize. Historically, use average performance from inverters
- Tape and disk requirements have grown considerably. Now grows at 8% facility budget, formerly below 5%.



1 Jpsi = 1.2 GF

Large fraction of resources from GPUs

Significant boost from INCITE

- 2013 ANL/Q - reg: 410M zero: 730M

3 PF sustained for QCD

Resource distribution

- Using normalizations, compare across sub-areas
- HEP and NP about equal
- Available resources are > 1700 M-Jpsi over coming year