USQCD All-Hands Meeting 2016

Report from the
Scientific Program Committee

Anna Hasenfratz

Scientific Program Committee

- ▸ Tom Blum

- ▸ Will Detmold

- ▸ Steve Gottlieb

- ▸ Anna Hasenfratz (Chair)

- ▸ Kostas Orginos

- ▸ Swagato Mukherjee (replaced Peter Petreczky)

- ▸ Aida El-Khadra (replaced Ruth Van de Water)

Allocation process

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

- The SPC advises the EC on science priorities for USQCD

- The SPC suggests to the EC allocations of computer time on the USQCD facilities

- as well as INCITE time

- The SPC recommends projects for leadership resources

Allocation process

In prior years the Scientific Program Committee (SPC) advised the Executive Committee (EC)

- The SPC suggests to the EC allocations of computer time of INCITE time

- The SPC recommends projects for leadership resources

These changes and current procedures will be discussed in the EC roundtable session

Available resources

Available resources:

– BNL BG/Q: 71M   (last year: 71M) BG/Q core-hrs

                          (115M Jpsi core-hrs)

– Clusters: 263M   (last year: 397M) Jpsi core-hrs

– GPUs: 7.7M   (last year: 8.0M) Fermi/Tesla GPU-hrs

                          (631M Jpsi core-hrs)

– New resources: 250M   Jpsi core-hrs : GPU or KNL

                          operational: Jan 2017

Total available: 1260M (last year: 1225M) Jpsi core-hrs

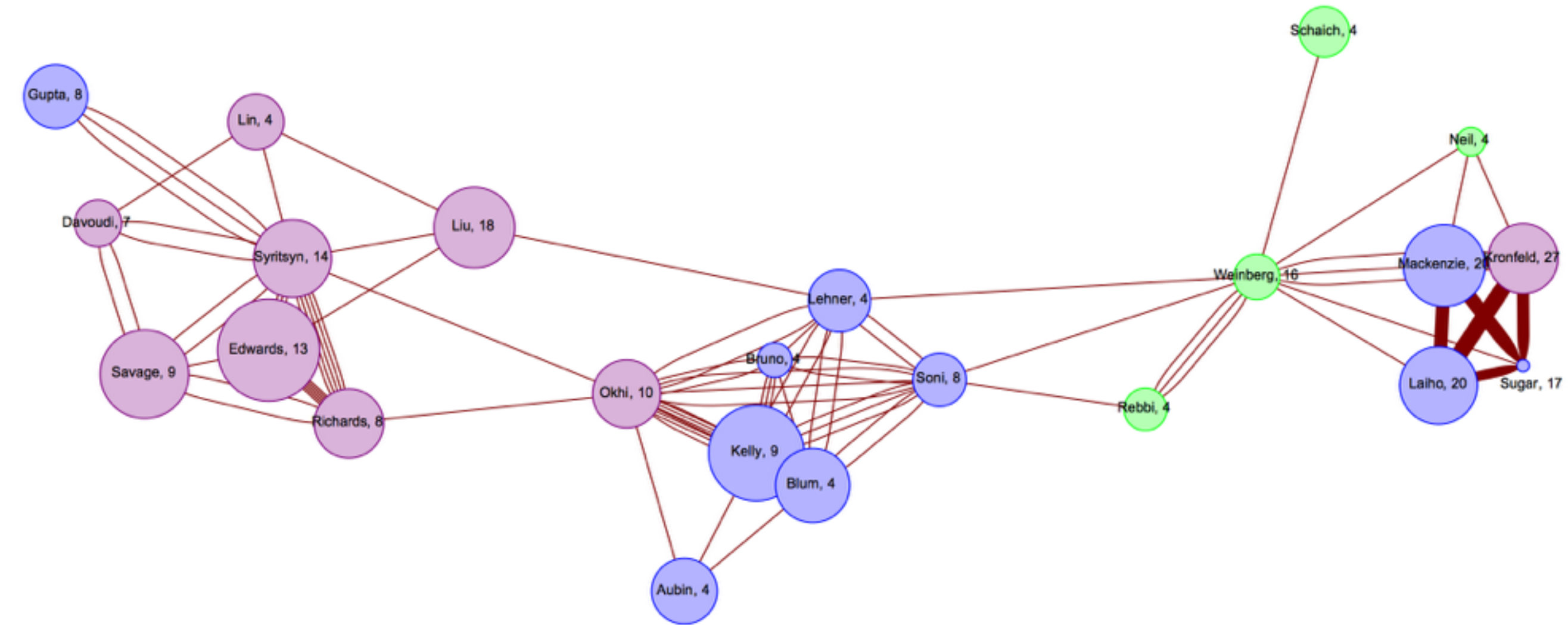Leadership class resources are handled differently this year

Proposals 2016-2017

The SPC has received

- 27 Type-A proposals (32 last year)

- 5 Type-B proposals (can be requested any time) (2 last year)

Proposals dynamics

NP Th IF EF

Proposals 2016-2017

- 27 Type-A proposals
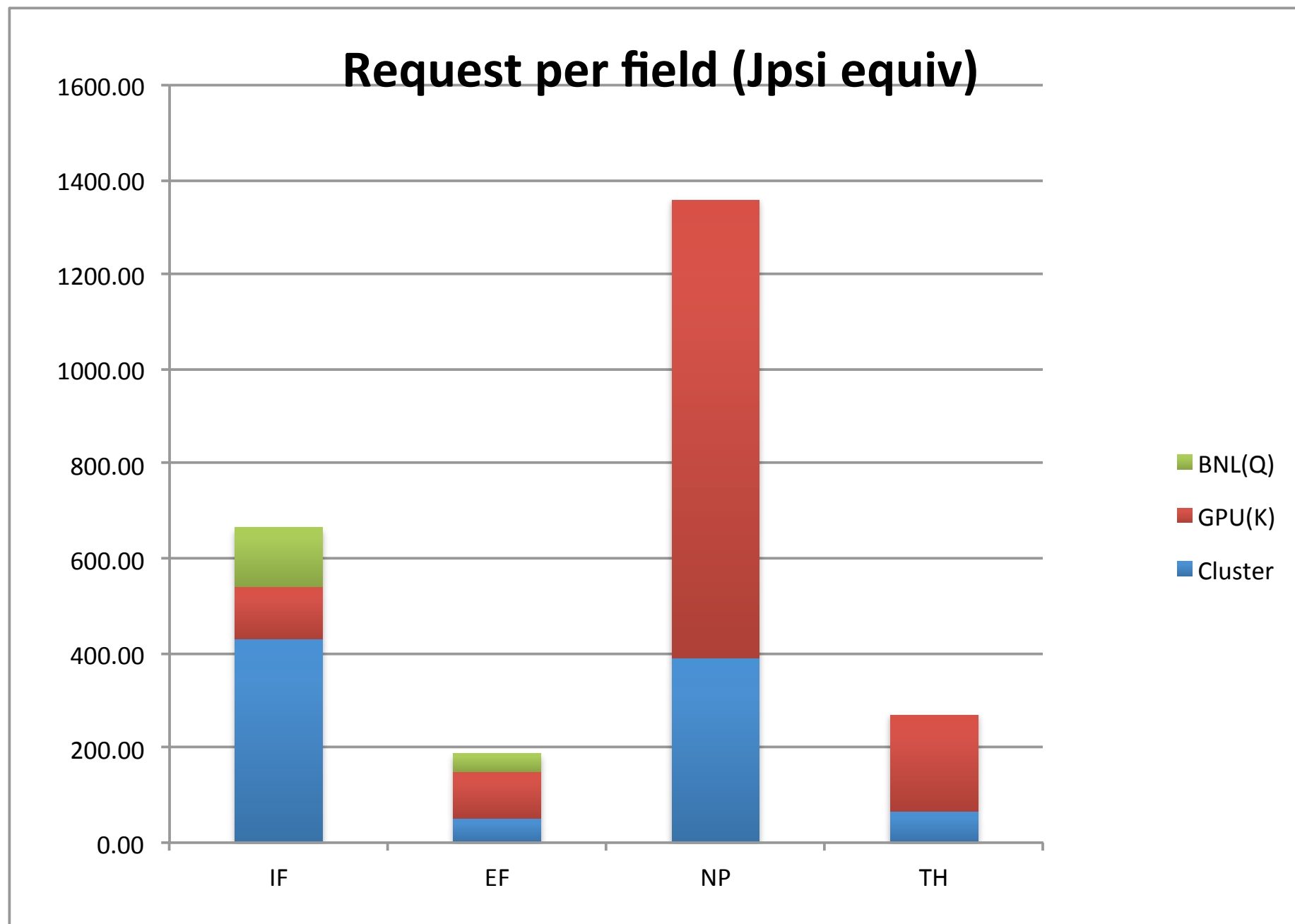
Resource	Request	Available	Req/Avail
BNL BG/Q	101M	70.8M	143%
Clusters(M)	821M	263M	312%
GPU(K)+New	9885K	7700K	120%
		250M	extra
Total	1796M Jpsi	1300M	138%

- Not as painful as last year

Distribution per field (requested)

Request per field (Jpsi equiv)

Legend:
- BNL(Q) (green)
- GPU(K) (red)
- Cluster (blue)

Total:(J-psi hrs)
IF: 529M
EF: 86M

NP: 812M
Th: 272M

Distribution per facilities

Requests vs available resources
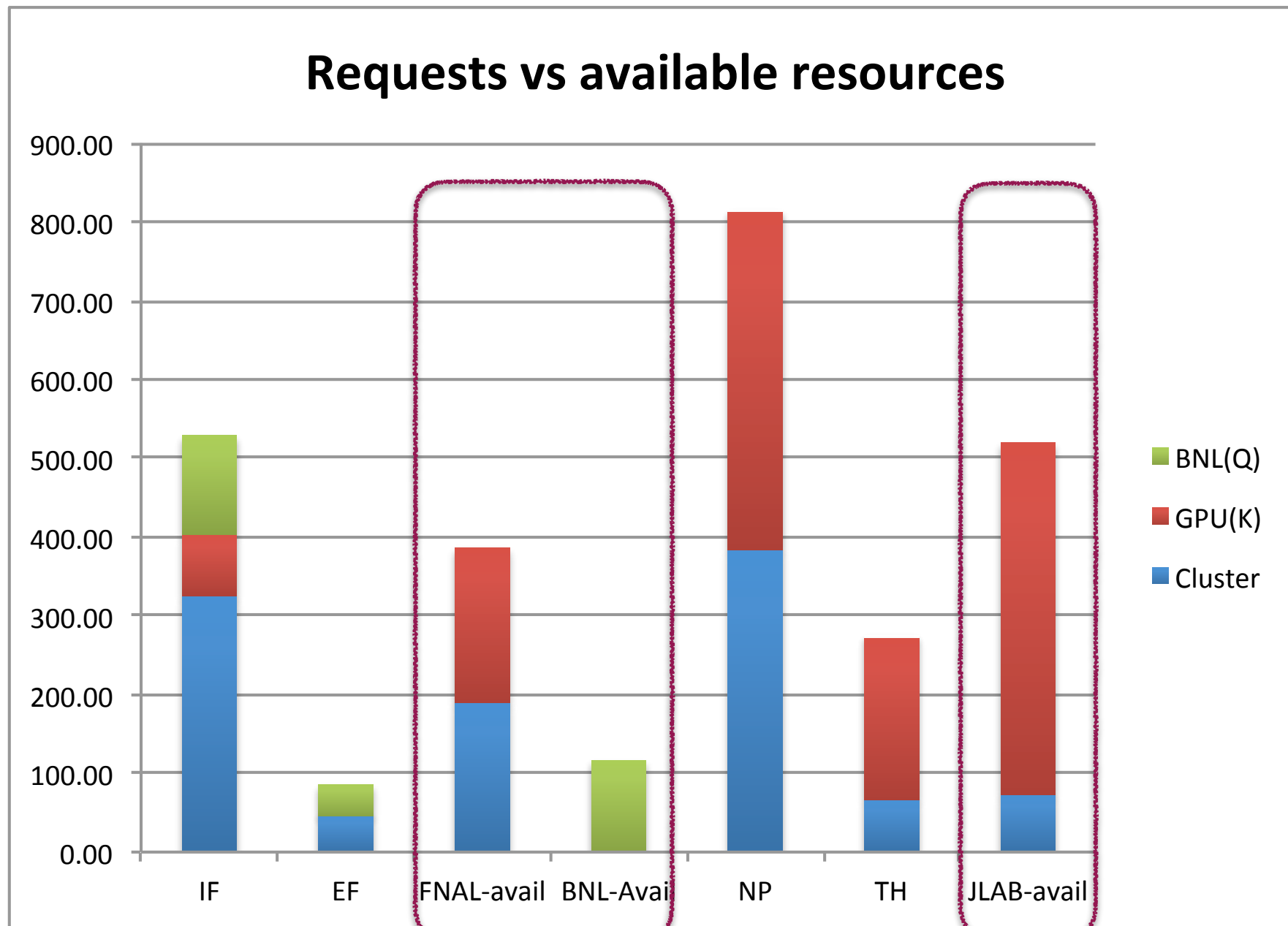
Total:(J-psi hrs)
IF: 42%
EF: 7%

NP: 64%
Th: 22%

Proposals 2016-2017

SPC is attempting to rationalize availability across all resources

- Scientific merit of proposals

- Which projects align with US HEP / NP programs ?

- Could projects share resources or be combined ?

- Can projects shift resource request? (cluster --> BG/Q or GPU)

▸ We would like to discuss some of these issues during the roundtables