

# USQCD All-Hands Meeting

## Reports:

- Executive Committee
- Project Manager
- SPC

## Facilities: Current & Future

- BNL, FNAL, JLAB
- Round table discussion

## Overview of the HEP exp. program and HEP P5 report recommendations

## Science Areas:

- Intensity Frontier, Energy Frontier, Cold Nuclear, Hot Nuclear
- Representative talks + SPC overview, perspectives
- Round table discussion

## Executive Committee Round table discussion on USQCD collaboration

# USQCD All-Hands Meeting 2015

## Report from the Scientific Program Committee

Anna Hasenfratz

# Scientific Program Committee

- ▶ Tom Blum (replaced Taku Izubuchi)
- ▶ Will Detmold
- ▶ Steve Gottlieb (replaced Doug Toussaint)
- ▶ Anna Hasenfratz (Chair)
- ▶ Kostas Orginos (replaced Robert Edwards)
- ▶ Peter Petreczky
- ▶ Ruth Van de Water

# Big thanks to Robert Edwards

- for chairing the SPC for four years and
- helping with the transition this year

# 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 time

# Proposals 2015-2016

The SPC has received

- ▶ **32** Type-A proposals (27 last year)
- ▶ **2** Type-B proposals (can be requested any time) (5 last year)

# Available resources

## Available resources:

### ► USQCD facilities:

- BNL BG/Q: **71M** (last year: 71M) BG/Q core-hrs
- Clusters: **451M** (last year: 397M) Jpsi core-hrs
- GPUs: **8.0M** (last year: 8.9M) Fermi/Tesla GPU-hrs

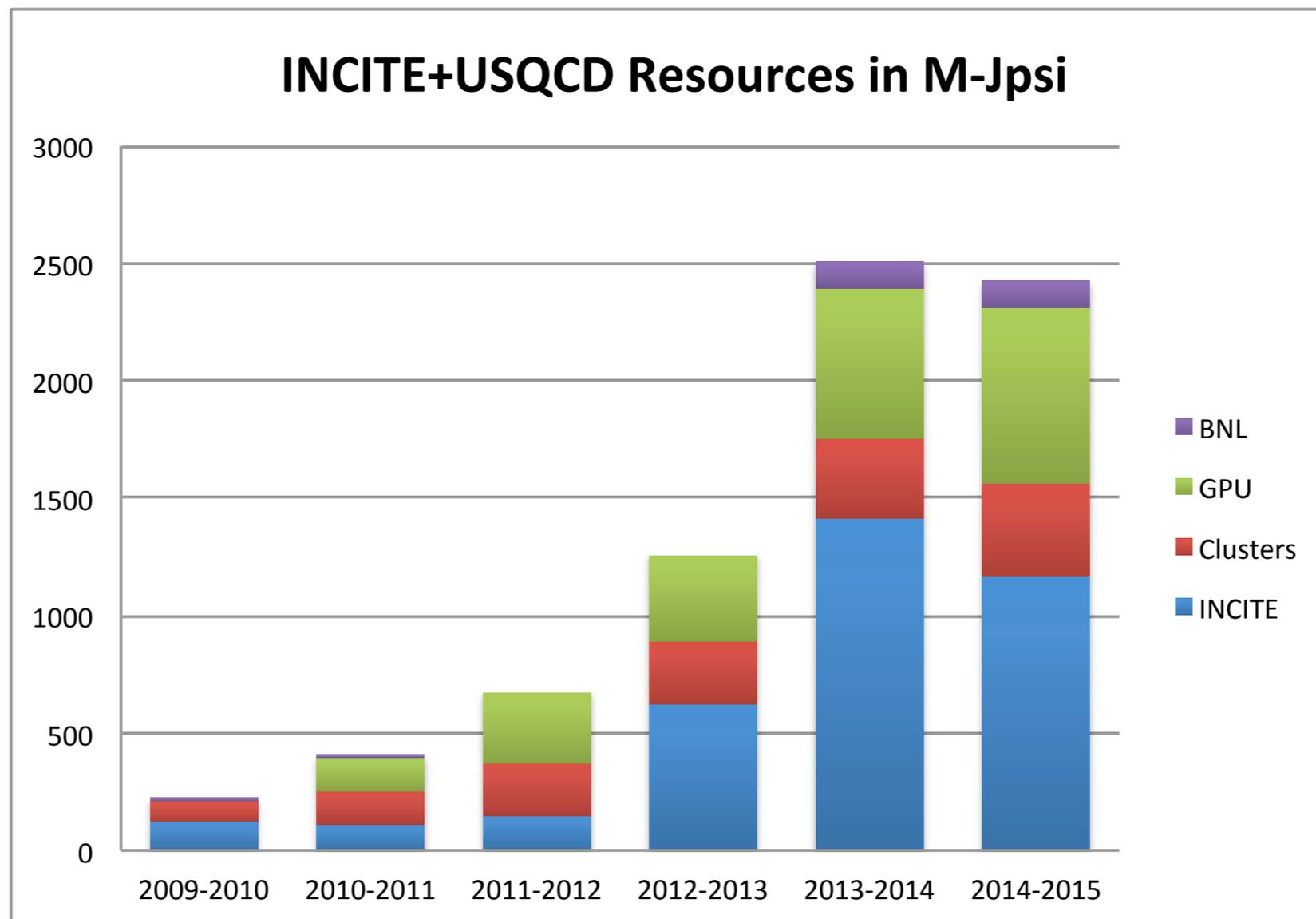
### ► CY2016 INCITE [estimate based on current CY2015]

- ANL: **180M** (last year 240M) BG/Q core-hrs
- ANL zero: **~450M** (last year 600M) BG/Q core-hrs
- ORNL: **100M** (last year 100M) XK7 core-hrs

# Available resources

First time that resources declined/stagnated

- ▶ small increase in cluster/GPU
- ▶ larger decline in INCITE resources



# Proposals 2015-2016

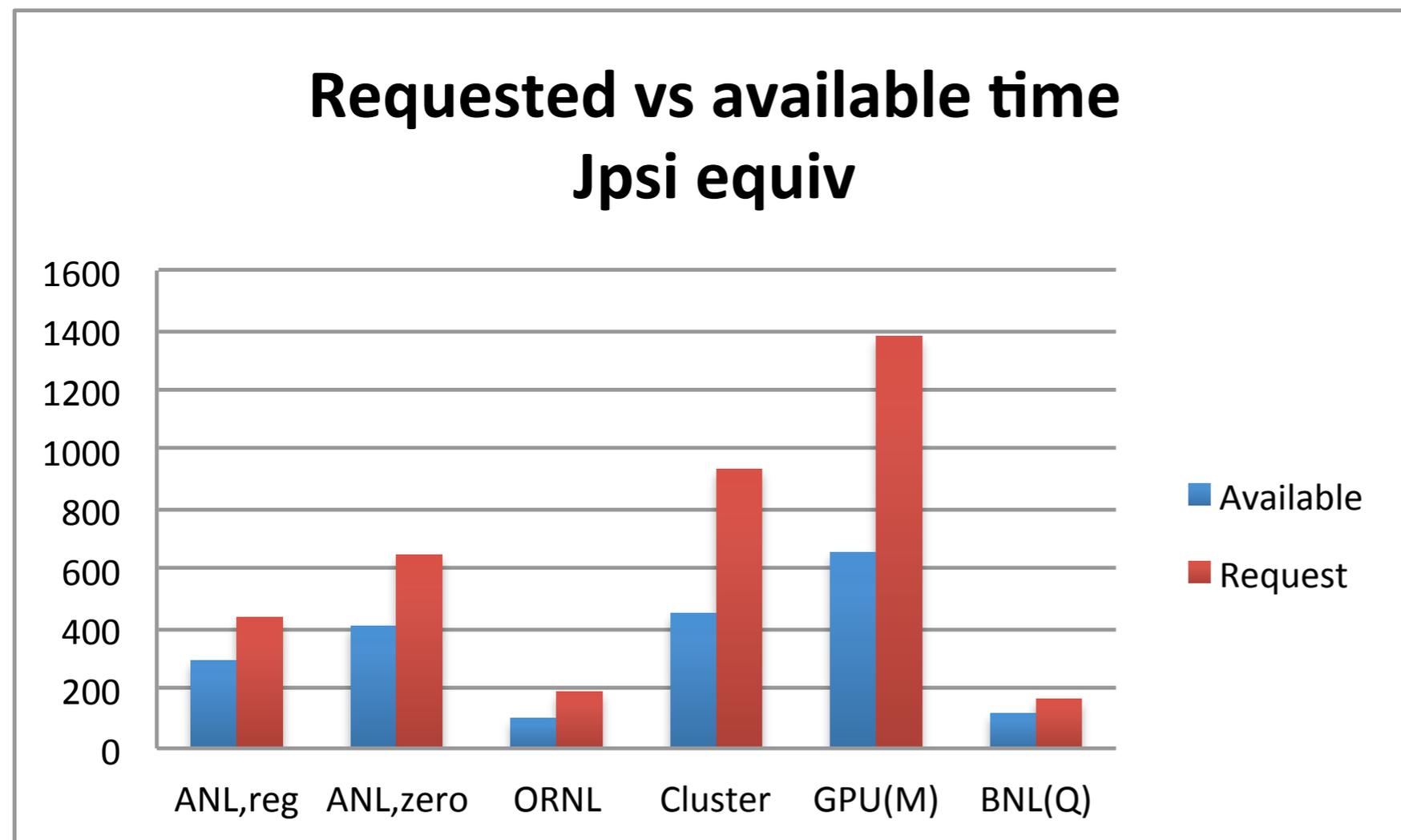
- ▶ **32** Type-A proposals (27 last year)
- ▶ **2** Type-B proposals (can be requested any time) (5 last year)
- ▶ Requests in new proposals:

Resource	Request	Available	Req/Avail
ANL reg	267	180	148%
ANL zero	158%	100%	158%
ORNL	190	100	190%
Clusters(M)	936	452	207%
GPU(K)	16831	8010	210%
BNL BG/Q	100	71	142%

- ▶ Over-subscription uniformly larger than in previous years:  
flat resources, increasing needs

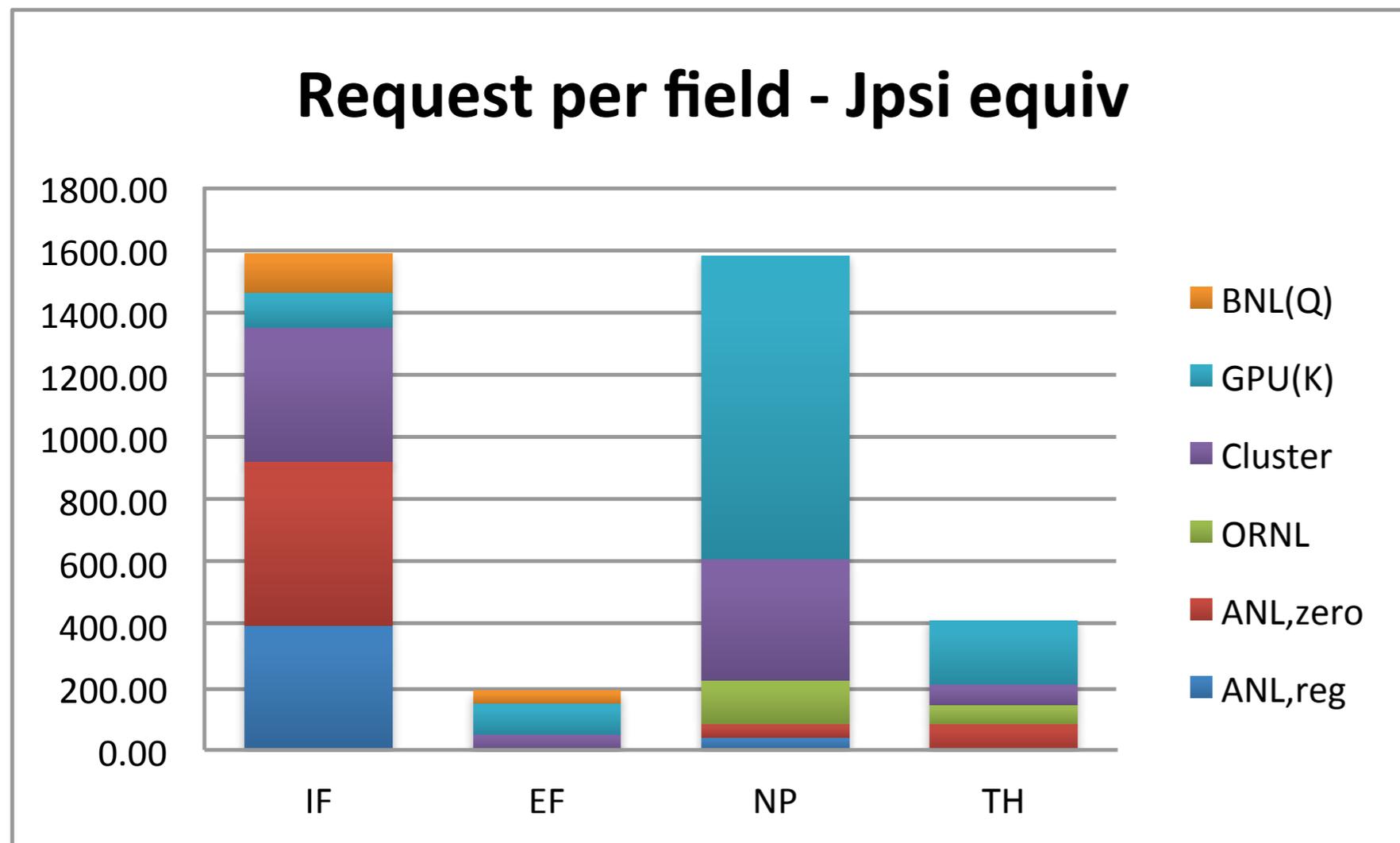
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flat resources, increasing needs**

# Distribution per field (requested)



**Total:(J-psi hrs)**

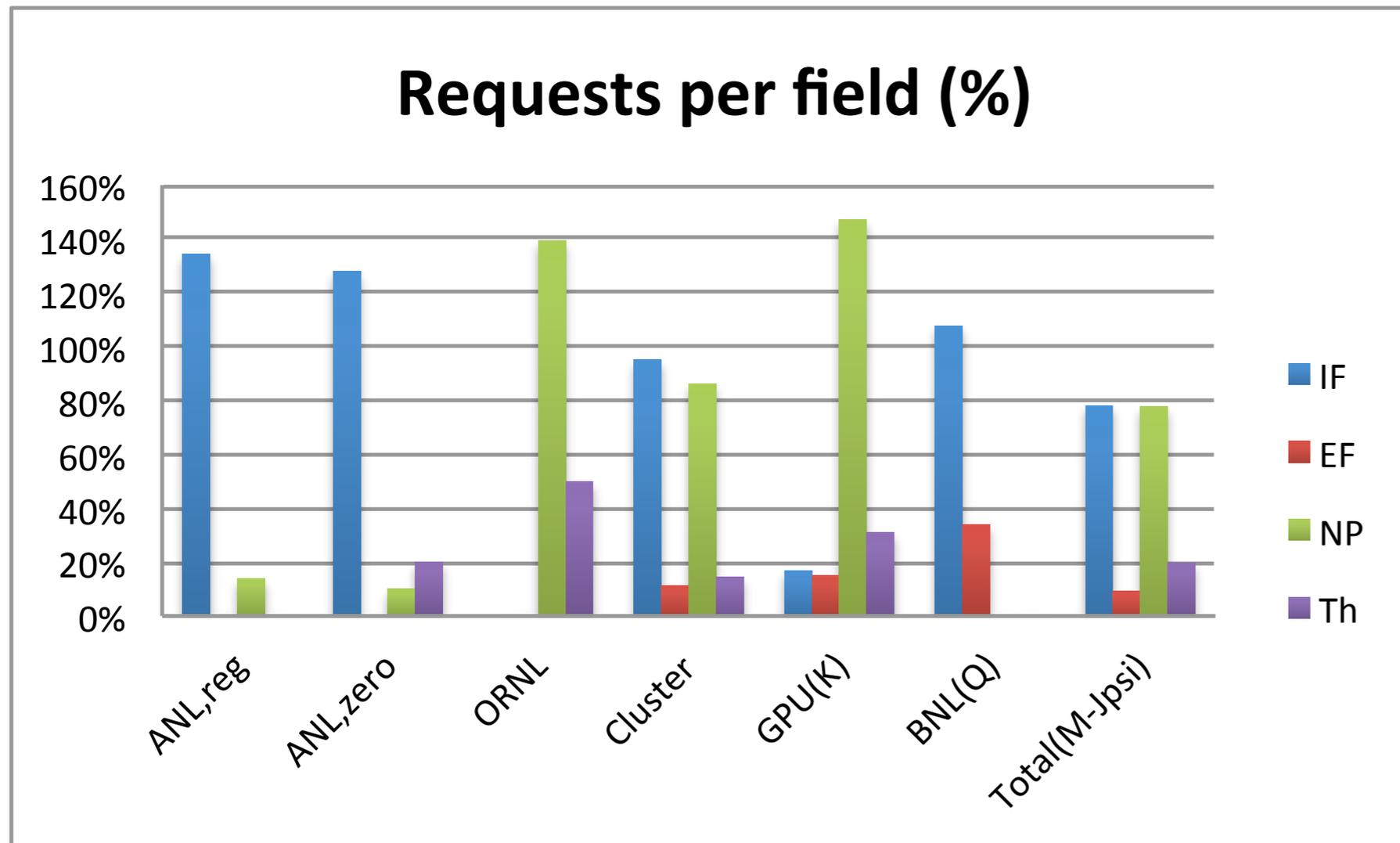
**IF: 1587M**

**EF: 190M**

**NP: 1578M**

**Th: 412M**

# Distribution per facilities (%)



Total:(J-psi hrs)

IF: 78%

EF: 9%

NP: 78%

Th: 20%

# Proposals 2015-2016

- ▶ 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)
- ▶ We would like to discuss some of these issues tomorrow during the roundtable