

Report from the Scientific Program Committee



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(University of Illinois)

USQCD All Hands meeting, Brookhaven, 26-27 April 2019



2019 Scientific Program Committee

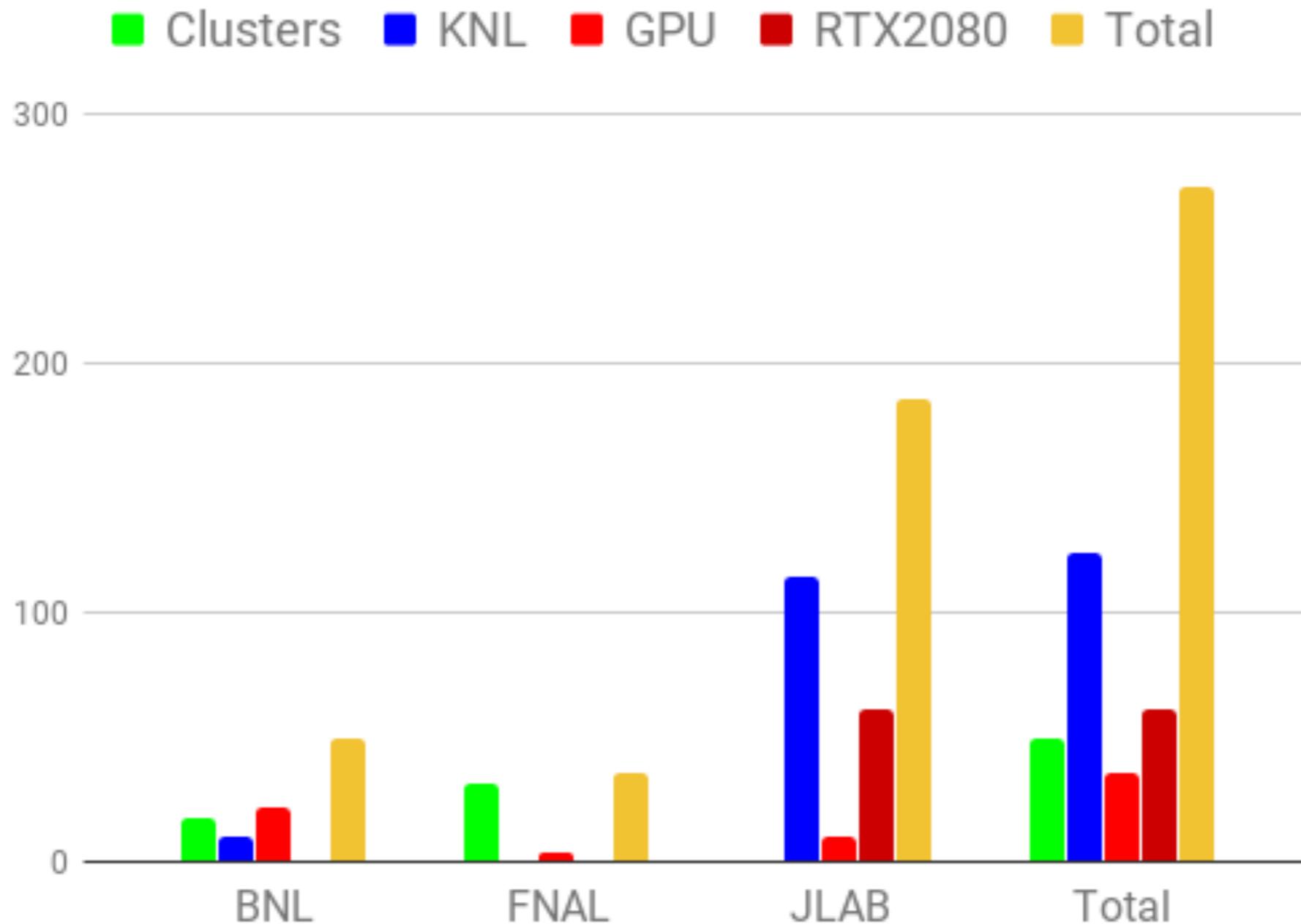
- Alexei Bazavov (Michigan State University)
replaced Swagato Mukherjee
- Aida El-Khadra, chair (University of Illinois)
- Jack Laiho (Syracuse University)
replaced Steve Gottlieb
- Meifeng Lin (Brookhaven)
replaced Tom Blum
- Keh-Fei Liu (University of Kentucky)
- Ethan Neil (University of Colorado)
- David Richards, co-chair (Jefferson Lab)

Available Resources

- Clusters (Skylake and pi0): 39.5 M Sky-core-hours
last year: 41.6 M Sky-core-hours
- KNL: 220 M KNL-core-hours
last year: 157 M KNL-core-hours
- GPU: 1.1 M K80-GPU-hours
last year: 1.7 M K80-GPU-hours
- RTX2080: 1.84 M RTX2080-GPU-hours
new this year
- **Total:** 270 M Sky-core-hours
last year: 232 M Sky-core-hours

Note: new units (see 2019 CfP)

Available Resources



*new units (see 2019 CfP): Sky-core-hours

2019-2020 Proposals

- 📌 31 Type-A proposals (31 last year)
all for physics analysis projects (no configuration generation)
- 📌 Type-B proposals:
3 in 2018-2019 (3 in 2017-2018, 3 in 2016-2017)
can be requested at any time, up to 500k Sky-core-hours,
6 months

Proposals are a mix of continuations and new efforts

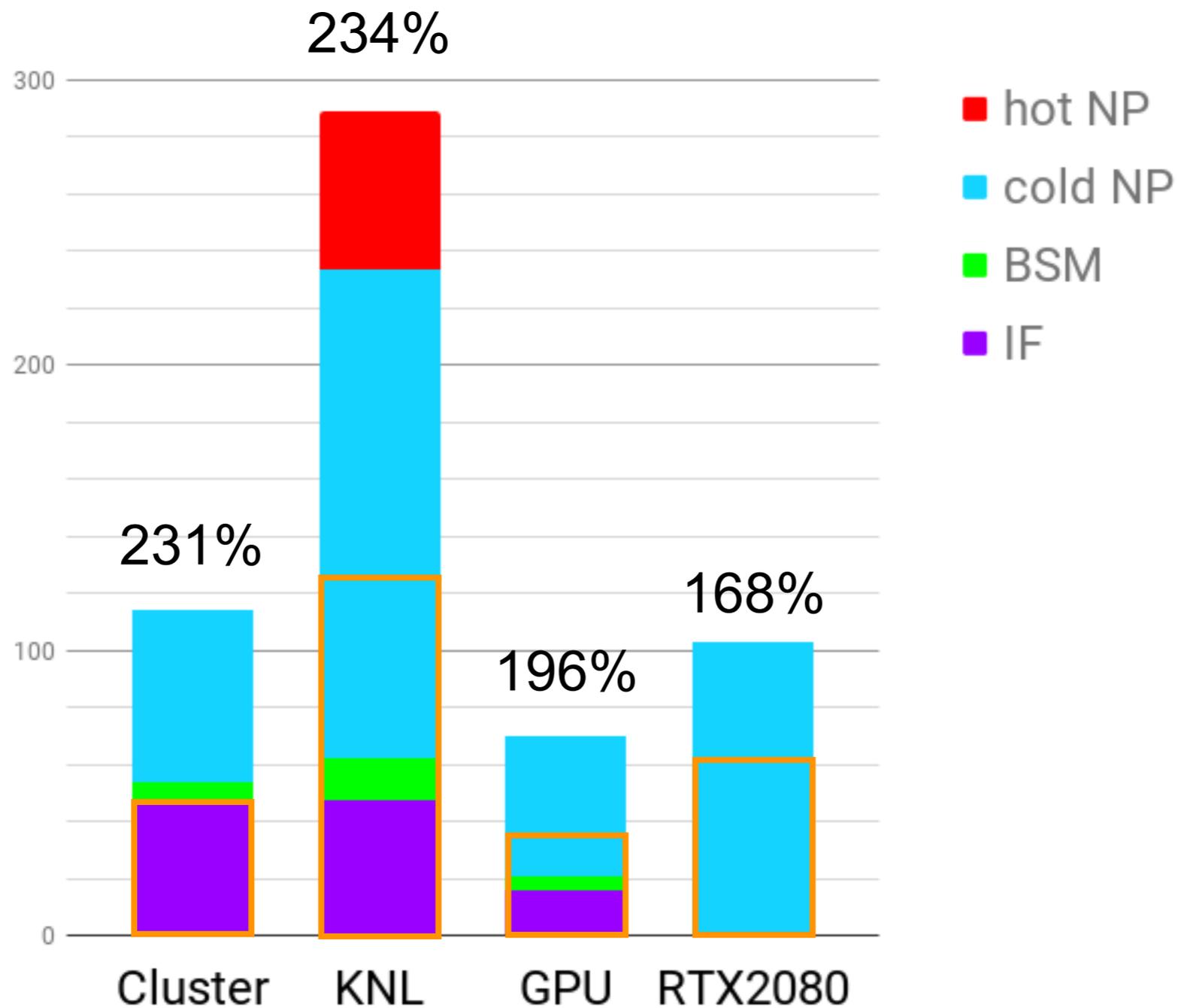
2019-2020 Proposals

Type-A proposals

- ☆ 8 IF (Intensity Frontier)
 - 6 quark flavor
 - 2 lepton flavor
- ☆ 5 BSM
- ☆ 10 cold NP (Nuclear Physics)
 - 1 spectroscopy
 - 8 structure, EDMs, form factors
 - 1 nuclei
- ☆ 7 IFNP: counted as 50% IF and 50% cold NP
 - neutrino scattering, proton decay, $0\nu\beta\beta$, V_{ud}
- ☆ 1 hot NP

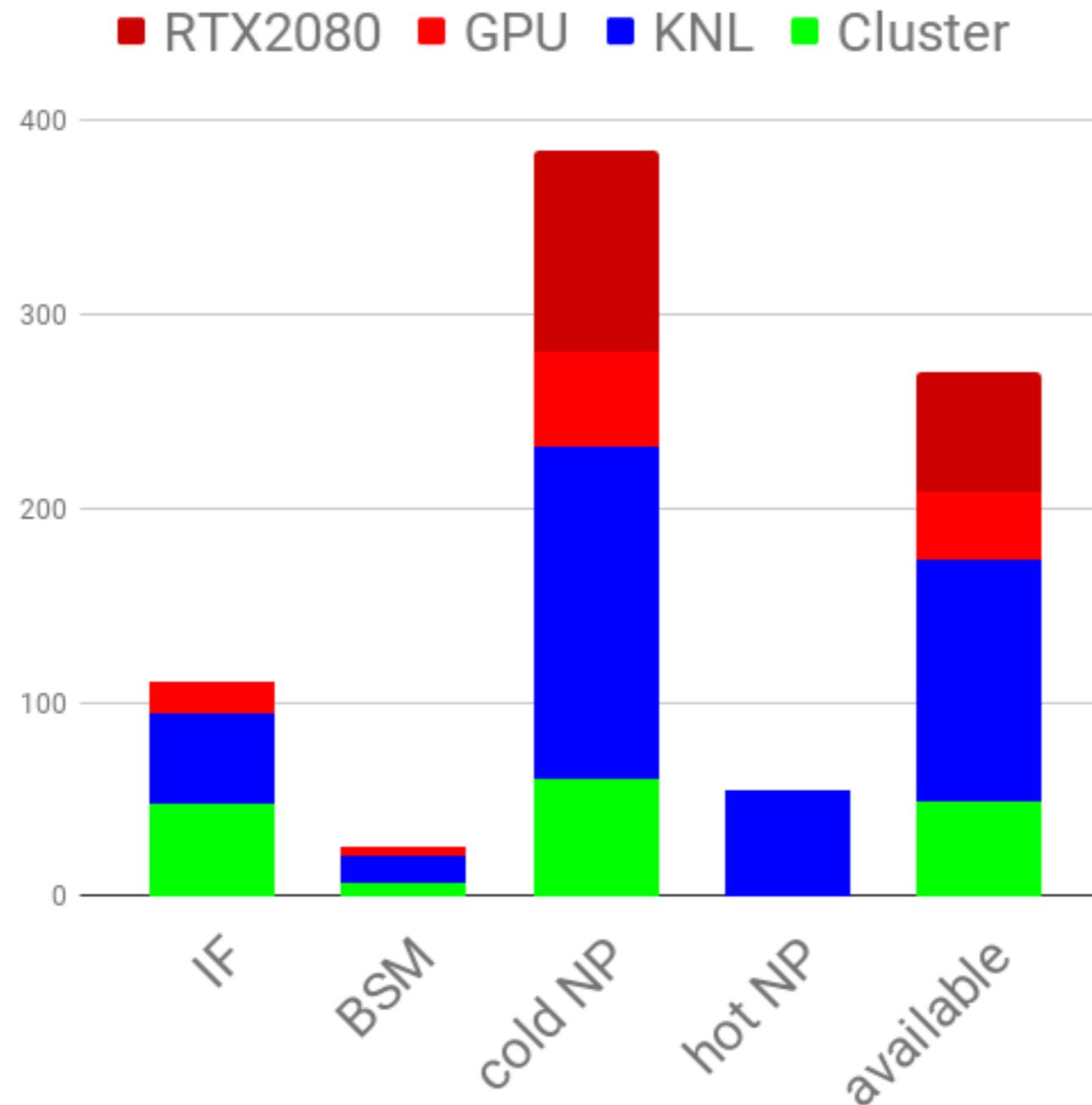
2019-2020 Proposals

Requested/Available



2019-2020 Proposals

Requests by research area



2019-2020 Proposals

SPC considerations:

-  scientific merit
-  alignment with USQCD goals, US HEP/NP programs
-  avoid duplication of effort, redundancy
-  balance between HEP and NP

Other Tasks

- 📌 Updates to the Call for Proposals
 - ◆ new units:
 - Sky-core-hours — replaced Jpsi-core-hours
 - K80-GPU-hours — replaced C2050 GPU-hours
 - added KNL-core-hours
 - added RTX2080-GPU-hours (see Chip Watson talk)
 - ◆ shorter narrative for continuing proposals
 - ◆ new online proposal submission
- 📌 new jeopardy policy in coordination with the EC and site managers
- 📌 participate in white paper planning
- 📌 Nominating committee for candidates for the EC election

Other Tasks

new online interface for proposal submission

If you have comments or suggestions for next year:

- ◆ add them to the [google doc](#)
- ◆ send email to SPC chairs:
Aida El-Khadra (axk@illinois.edu)
David Richards (dgr@jlab.org)