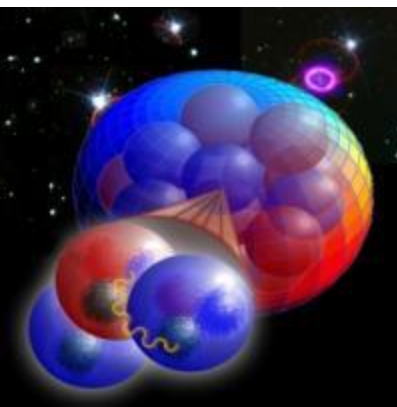
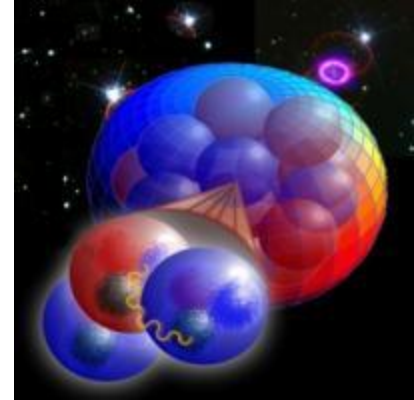


NP Program Office Research Directions

Reinterpreted somewhat for NERSC purposes

1. NP Research Areas
2. Current NP NERSC User Community
3. Presentations





1. Research Areas (*NP field*; *specific comp. at NERSC*; *facility*)

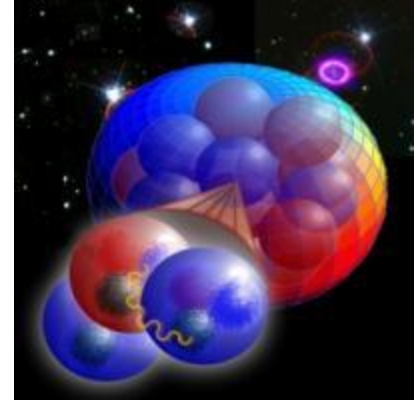
The crucial reference: **NSAC Report**
(Dec. 2007; next one probably in ca. 1 year)

The Frontiers of Nuclear Science: A Long Range Plan

p. *i.*: The Science

Quantum Chromodynamics: From the Structure of Hadrons to the Phases of Nuclear Matter

- QCD and the Structure of Hadrons (*Hadron Str. & Spec. - MENP*; **LQCD**; **TJNAF**)
- The Phases of Nuclear Matter (*Heavy Ion Collisions*; **T>0 LQCD**; **RHIC** and **LHC**)
- The Emerging QCD Frontier: **The Electron-Ion Collider** (further future)
- Nuclei: From Structure to Exploding Stars (*LENP*; *N Astro*; future **FRIB**)
- In Search of the New Standard Model (*Fund. Ints. and Symms.* (recent) ~ *LENP*; **BNL, ORNL(SNS), ...**)



2. Current NP NERSC User Community

31 PIs

<u>Area</u>	<u>Users</u>	<u>CPU time alloc.</u>	
LQCD	6	76%	} ~ 94% of CPU useage
N Astro	6	7.8%	
LENP Thy	8	7.7%	
N Accel	3	2.0%	
[...]	6	6.1%	
Expt	2	$8.4 \cdot 10^{-5}$	[storage, not CPU]

NERSC request was to hear from **all** areas of NP. (Possible future users?)

So, we have included presentations beyond what this list alone would suggest...

3. Presentations

Area Representatives:

LQCD Robert Edwards (TJNAF), Chip Watson (TJNAF); Martin Savage (UW)

LENP Thy Joe Carlson (LANL), Esmond Ng (LBNL), Jon Engel (UNC)

N Astro Dan Kasen (UCB), Tomasz Plewa (FSU)

Expt: Heavy Ions Jeff Porter (LBNL)

Expt: MENP Richard Jones (UConn)

Nuclear Data Alejandro Sonzogni (BNL)

N Accel. David Bruhweiler (Tech-X)

Next: Kathy Yelick (NERSC Director)

