

Impacts of FY 2018 President's Request for Nuclear Physics by Sub-program – as described in President's Request narrative

Lab and University Research Reduced ~ 35% from FY17 Enacted to FY18 PR

Reductions in Force at national laboratories: ~ 200 FTEs

Reductions in Force at universities: ~ 500-600 scientists

No new Early Career Awards in FY 2018

Medium Energy:

- Continuous Electron Beam Facility (Scientific User Facility) operates at 10 weeks (28.7% utilization)
- No CEBAF capital equipment, accelerator improvement project, facility accelerator R&D or general purpose plant funding provided to Jlab
- Up to 100 FTE reduction-in-force at Jlab
- No initiation of the Moller MIE, which received Critical Decision 0 approval in 12/16.
- No medium energy experimental program at FNAL
- No RHIC Spin Program
- No MIT Research and Engineering Center (University Center of Excellence)
- Remaining research reduced 24.5%

Heavy Ion Program:

- No U.S. participation in LHC Heavy Ion Program; M&O common funds and computing commitments cancelled; No ALICE Barrel Tracking Upgrade
- Relativistic Heavy Ion Collider (Scientific User Facility) operations at 10 weeks (66.7% utilization); run is combined for a single run to span the FY18/FY19 boundary
- No capital equipment, accelerator improvement project, facility accelerator R&D funding provided to RHIC
- Up to 100 FTE reduction in force at RHIC
- No initiation of sPHENIX MIE, which received Critical Decision approval in September 2016
- All Heavy Ion National Laboratory Research efforts are reduced by 24.5%

Nuclear Structure and Astrophysics and Fundamental Symmetries:

- Argonne Tandem Linac Accelerator Facility (Scientific User Facility) at 23 weeks at 5 days/week (39.7% utilization).
- No capital equipment, accelerator improvement project funding provided to ATLAS.
- FRIB construction profile reduced; FRIB operations funding not initiated in 2018.
- GRETA MIE, initiated in FY 2017, pursued at reduced pace.
- No SECAR instrumentation effort for FRIB
- Operations of 88 inch cyclotron at LBNL paused

- Operations of TAMU and Duke HIGS facilities (both University Centers of Excellence) paused; reductions in force possible; no equipment funding provided
- No Next Generation Neutrinoless Double Beta Decay R&D
- No nEDM R&D
- All other Low Energy University and Laboratory research efforts are reduced by 24.5%.

Theory, Nuclear Data, Scidac

- No participation in NP/HEP LQCD project effort
- Research reduced by 24.5%

DOE Isotope Program:

- Research reduced by 24.5%
- Mission readiness of isotope production facilities reduced
- Stable Isotope Production Facility Major Item of Equipment, initiated in FY2017, is pursued at a slower pace.