

Type: Renewal

Title: "Nuclear Structure and Nuclear Reactions"

Principal Investigator: James Vary, Iowa State University

Co-Investigators: Joseph Carlson, Los Alamos National Laboratory

Gaute Hagen, Oak Ridge National Laboratory

Pieter Maris, Iowa State University

Hai Ah Nam, Los Alamos National Laboratory

Petr Navratil, TRIUMF

Witold Nazarewicz, University of Tennessee, Knoxville

Steven Pieper, Argonne National Laboratory

Nicolas Schunck, Lawrence Livermore National Laboratory

Scientific Discipline: Physics: Nuclear Physics

INCITE Allocation: 184,000,000 processor hours

Site: Argonne National Laboratory

Machine (Allocation): IBM Blue Gene/Q (80,000,000 processor hours)

Site: Oak Ridge National Laboratory

Machine (Allocation): Cray XK7 (104,000,000 processor hours)

Largest award on Titan

2016 Top 5 awards by size out of 56 awards Rank and millions of cpu hours

- 1. 354 Modeling Advanced Coal-Fired Boiler
- 2. 280 Lattice QCD
- 3. 200 Quantum Chemistry
- 4. 190 Earthquake simulation
- 5. 184 Nuclear Physics