

Multidisciplinary  
Cooperative Research  
Program 2021

Report of Contributions

Contribution ID : 1

Type : MCRP-S

## Research on Atmosphere Energy Budget and its Long-term Variability using Atmospheric General Circulation Models

Email

tanaka@ccs.tsukuba.ac.jp

Number of project members

5

Cygnus: Project code

[GEO]

Cygnus: Requested [awarded] node-hour product

3,000 [2,700]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[Xg18i037]

OFP: Requested [awarded] node-hour product

128,000 [45,000]

OFP: Requested [awarded] disk capacity (TB)

[50]

Primary author(s) : Prof. TANAKA, Hiroshi (University of Tsukuba, CCS)

Track Classification : Global environment(地球環境分野)

Contribution ID : 2

Type : MCRP-M

## Decay-instance dependence of reliability of nuclear matrix element of neutrinoless double- $\beta$ decay by QRPA

Email

jun.terasaki@cvut.cz

Number of project members

2

Cygnus: Project code

[No]

Cygnus: Requested [awarded] node-hour product

[0]

Cygnus: Requested [awarded] disk capacity (TB)

[0]

OFP: Project code

[xg18i006]

OFP: Requested [awarded] node-hour product

200,000 [170,000]

OFP: Requested [awarded] disk capacity (TB)

[50]

Primary author(s) : TERASAKI, Jun (Czech Technical University in Prague)

Track Classification : Nuclear Physics(原子核分野)

Contribution ID : 3

Type : MCRP-M

## Migration of the Solar system in the Galactic disc induced by giant molecular clouds

Email

yusuke.fujimoto.jp@gmail.com

Number of project members

1

Cygnus: Project code

[No]

Cygnus: Requested [awarded] node-hour product

[0]

Cygnus: Requested [awarded] disk capacity (TB)

[0]

OFP: Project code

No [xg21i003]

OFP: Requested [awarded] node-hour product

200,000 [170,000]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : FUJIMOTO, Yusuke (Carnegie Institution for Science)

Track Classification : Astrophysics(宇宙分野)

Contribution ID : 4

Type : MCRP-S

## Development of Graph Library and Optimization Algorithm for Order/Degree Problem

Email

masahiro.nakao@riken.jp

Number of project members

3

Cygnus: Project code

[GG]

Cygnus: Requested [awarded] node-hour product

5,000 [4,500]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

No [xg21i004]

OFP: Requested [awarded] node-hour product

50,000 [45,000]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : Dr NAKAO, Masahiro (RIKEN)

Track Classification : High-performance computing system(超高速計算システム分野)

Contribution ID : 5

Type : MCRP-M

## Structural Investigations on Non-conventional Molecular Chaperones using Molecular Dynamics Simulations

Email

morita@ccs.tsukuba.ac.jp

Number of project members

6

Cygnus: Project code

[MOLBIO]

Cygnus: Requested [awarded] node-hour product

20,000 [16,000] [update 20,800]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[No]

OFP: Requested [awarded] node-hour product

[0]

OFP: Requested [awarded] disk capacity (TB)

[0]

Primary author(s) : MORITA, Rikuri (University of Tsukuba)

Track Classification : Life Science(生命分野)

Contribution ID : 6

Type : MCRP-S

## Study on numerical library on many-core/GPU clusters

Email

daisuke@cs.tsukuba.ac.jp

Number of project members

2

Cygnus: Project code

[NUMLIB]

Cygnus: Requested [awarded] node-hour product

5,000 [4500]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[xg18i009]

OFP: Requested [awarded] node-hour product

50,000 [45,000]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : TAKAHASHI, Daisuke (University of Tsukuba)

Track Classification : High-performance computing system(超高速計算システム分野)

Contribution ID : 7

Type : MCRP-M

## Dissociation Mechanisms of Protein Complexes Studied by PaCS-MD

Email

ryuhei@ccs.tsukuba.ac.jp

Number of project members

9

Cygnus: Project code

[LSC]

Cygnus: Requested [awarded] node-hour product

20,000 [17,778] [update 23,111]

Cygnus: Requested [awarded] disk capacity (TB)

[30]

OFP: Project code

[No]

OFP: Requested [awarded] node-hour product

[0]

OFP: Requested [awarded] disk capacity (TB)

[0]

Primary author(s) : Dr HARADA, Ryuhei (Center for Computational Sciences, University of Tsukuba)

Track Classification : Life Science(生命分野)

Contribution ID : 8

Type : MCRP-S

## Research on Remote Sensing Image Data Analysis Using Machine Learning

Email

toriya.hisatoshi@image.iit.tsukuba.ac.jp

Number of project members

4

Cygnus: Project code

[CVGEO]

Cygnus: Requested [awarded] node-hour product

5000 [4500]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[No]

OFP: Requested [awarded] node-hour product

[0]

OFP: Requested [awarded] disk capacity (TB)

[0]

Primary author(s) : TORIYA, Hisatoshi (Center for Computational Sciences, University of Tsukuba)

Track Classification : Computational informatics(計算情報学分野)

Contribution ID : 9

Type : MCRP-M

## Strong CP problem in QCD on the lattice

Email

ryuichiro.kitano@kek.jp

Number of project members

4

Cygnus: Project code

[STRONGCPC]

Cygnus: Requested [awarded] node-hour product

20,000 [16,000] [update 20,800]

Cygnus: Requested [awarded] disk capacity (TB)

[15] [update 30] [update 50]

OFP: Project code

[xg19i010]

OFP: Requested [awarded] node-hour product

300,000 [255,000]

OFP: Requested [awarded] disk capacity (TB)

[20] [update 40]

Primary author(s) : KITANO, Ryuichiro (KEK)

Track Classification : Particle Physics(素粒子分野)

Contribution ID : 10

Type : MCRP-L

## Search for physics beyond the standard model from 2+1 Flavor Lattice QCD with the Physical Quark Masses

Email

ishikawa@theo.phys.sci.hiroshima-u.ac.jp

Number of project members

5

Cygnus: Project code

[LATTICE]

Cygnus: Requested [awarded] node-hour product

[50,000]

Cygnus: Requested [awarded] disk capacity (TB)

[50]

OFP: Project code

[xg18i039]

OFP: Requested [awarded] node-hour product

[1,000,000] [update 1,300,000]

OFP: Requested [awarded] disk capacity (TB)

[400]

Primary author(s) : ISHIKAWA, Ken-Ichi (Hiroshima University)

Track Classification : Particle Physics(素粒子分野)

Contribution ID : 11

Type : MCRP-S

## Numerical search of flux-constant states in turbulence

Email

yoshida.kyo.fu@u.tsukuba.ac.jp

Number of project members

1

Cygnus: Project code

[No]

Cygnus: Requested [awarded] node-hour product

[0]

Cygnus: Requested [awarded] disk capacity (TB)

[0]

OFP: Project code

No [x21i011]

OFP: Requested [awarded] node-hour product

40,000 [36,000]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : YOSHIDA, Kyo (University of Tsukuba)

Track Classification : Material Science(物質科学分野)

Contribution ID : 12

Type : MCRP-M

## Statistics of voltage distribution in variable-range hopping

Email

toshiaki.hayashi.kt@hco.ntt.co.jp

Number of project members

3

Cygnus: Project code

[No]

Cygnus: Requested [awarded] node-hour product

[0]

Cygnus: Requested [awarded] disk capacity (TB)

[0]

OFP: Project code

[xg19i005]

OFP: Requested [awarded] node-hour product

300,000 [229,500] [298,350]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : Dr HAYASHI, Toshiaki (NTT Corporation); Prof. TOKURA, Yasuhiro (University of Tsukuba); Dr NISHIGUCHI, Katsuhiko (NTT Corporation)

Track Classification : Material Science(物質科学分野)

Contribution ID : 13

Type : MCRP-S

## Phylogenomic study for understanding the global eukaryotic phylogeny

Email

yuji@ccs.tsukuba.ac.jp

Number of project members

5

Cygnus: Project code

[No]

Cygnus: Requested [awarded] node-hour product

[0]

Cygnus: Requested [awarded] disk capacity (TB)

[0]

OFP: Project code

[xg19i053]

OFP: Requested [awarded] node-hour product

1,000 [900]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : INAGAKI, Yuji (Center for Computational Sciences, University of Tsukuba)

Track Classification : Biology(生物分野)

Contribution ID : 14

Type : MCRP-S

## Study on low-excitation modes of nuclei and their linkage to nucleonic interaction based on self-consistent mean-field theory

Email

nakada@faculty.chiba-u.jp

Number of project members

2

Cygnus: Project code

[No]

Cygnus: Requested [awarded] node-hour product

[0]

Cygnus: Requested [awarded] disk capacity (TB)

[0]

OFP: Project code

[xg20i010]

OFP: Requested [awarded] node-hour product

50,000 [45,000]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : NAKADA, Hitoshi (Chiba University)

Track Classification : Nuclear Physics(原子核分野)

Contribution ID : 15

Type : MCRP-FPGA

## HPC application and system software development on FPGA-GPU combined platform

Email

taisuke@cs.tsukuba.ac.jp

Number of project members

18

Cygnus: Project code

[CCUSC]

Cygnus: Requested [awarded] node-hour product

10000 [9000]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[No]

OFP: Requested [awarded] node-hour product

[0]

OFP: Requested [awarded] disk capacity (TB)

[0]

Primary author(s) : BOKU, Taisuke (University of Tsukuba)

Track Classification : High-performance computing system(超高速計算システム分野)

Contribution ID : 16

Type : MCRP-M

## Development and Application of Large Eddy Simulation Model for Urban Areas

Email

s1830199@s.tsukuba.ac.jp

Number of project members

10

Cygnus: Project code

[LES]

Cygnus: Requested [awarded] node-hour product

20,000 [12,960]

Cygnus: Requested [awarded] disk capacity (TB)

[50]

OFP: Project code

[xg18i028]

OFP: Requested [awarded] node-hour product

180,000 [153,000]

OFP: Requested [awarded] disk capacity (TB)

[400]

Primary author(s) : SATO, Takuto (Life and environmental sciences, Univ. of Tsukuba)

Track Classification : Global environment(地球環境分野)

Contribution ID : 17

Type : MCRP-M

## Car-Parrinello molecular dynamics simulations for nano-bio integrated systems

Email

shigeta@ccs.tsukuba.ac.jp

Number of project members

8

Cygnus: Project code

[CPMDC]

Cygnus: Requested [awarded] node-hour product

10,240 [6,636]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

xg18i038 [No]

OFP: Requested [awarded] node-hour product

[0]

OFP: Requested [awarded] disk capacity (TB)

[0]

Primary author(s) : SHIGETA, Yasuteru (Center for Computational Sciences, University of Tsukuba)

Track Classification : Life Science(生命分野)

Contribution ID : 18

Type : MCRP-M

## Microscopic description of the collective motion of medium-heavy nuclei based on shell-model calculations

Email

shimizu@cns.s.u-tokyo.ac.jp

Number of project members

5

Cygnus: Project code

[No]

Cygnus: Requested [awarded] node-hour product

[0]

Cygnus: Requested [awarded] disk capacity (TB)

[0]

OFP: Project code

[xg18i035]

OFP: Requested [awarded] node-hour product

300,000 [283,333]

OFP: Requested [awarded] disk capacity (TB)

[30]

Primary author(s) : SHIMIZU, Noritaka (Center for Nuclear Study, the University of Tokyo)

Track Classification : Nuclear Physics(原子核分野)

Contribution ID : 19

Type : MCRP-M

## Large-scale electronic structure calculations of biomolecules

Email

mshoji@ccs.tsukuba.ac.jp

Number of project members

6

Cygnus: Project code

[CCSPHYSB]

Cygnus: Requested [awarded] node-hour product

20,000 [16,000]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[No]

OFP: Requested [awarded] node-hour product

[0]

OFP: Requested [awarded] disk capacity (TB)

[0]

Primary author(s) : SHOJI, Mitsuo (Center for Computational Sciences, University of Tsukuba)

Track Classification : Life Science(生命分野)

Contribution ID : 20

Type : MCRP-S

## Structure Formation in the Universe using Radiation Hydrodynamic Simulations

Email

ohsuga@ccs.tsukuba.ac.jp

Number of project members

40

Cygnus: Project code

[RTRHD]

Cygnus: Requested [awarded] node-hour product

4,480 [4,032]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[xg19i022]

OFP: Requested [awarded] node-hour product

45,600 [41,040]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : Dr OHSUGA, Ken (University of Tsukuba)

Track Classification : Astrophysics(宇宙分野)

Contribution ID : 21

Type : MCRP-L

## Particle Physics with Tensor Network Scheme

Email

kuramasi@het.ph.tsukuba.ac.jp

Number of project members

4

Cygnus: Project code

[TRG]

Cygnus: Requested [awarded] node-hour product

20,000 [12,150]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[xg18i040]

OFP: Requested [awarded] node-hour product

[1,000,000] [update 1,600,000]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : KURAMASHI, Yoshinobu

Track Classification : Particle Physics(素粒子分野)

Contribution ID : 23

Type : MCRP-M

## Development of in-vivo optical tomography by combining radiative transfer calculations and machine learning

Email

yajima@ccs.tsukuba.ac.jp

Number of project members

6

Cygnus: Project code

RT810img [RT810IMG]

Cygnus: Requested [awarded] node-hour product

18,000 [14,400]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[xg19i047]

OFP: Requested [awarded] node-hour product

281,600 [239,360]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : YAJIMA, Hidenobu

Track Classification : Astrophysics(宇宙分野)

Contribution ID : 24

Type : MCRP-M

## Quantum dynamics in nuclei and neutron stars

Email

nakatsukasa@nucl.ph.tsukuba.ac.jp

Number of project members

5

Cygnus: Project code

[NUCLDFT]

Cygnus: Requested [awarded] node-hour product

1,000 [900]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[xg18i001]

OFP: Requested [awarded] node-hour product

300,000 [206,550]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : NAKATSUKASA, Takashi (University of Tsukuba)

Track Classification : Nuclear Physics(原子核分野)

Contribution ID : 25

Type : MCRP-M

## Theoretical investigations on the properties of excited states and electron energy transfer in photosynthesis by quantum chemistry calculations and quantum dynamics simulations

Email

mishima.kenji.fu@u.tsukuba.ac.jp

Number of project members

3

Cygnus: Project code

[PHYSBIOQM]

Cygnus: Requested [awarded] node-hour product

20,000 [14,400]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[No]

OFP: Requested [awarded] node-hour product

[0]

OFP: Requested [awarded] disk capacity (TB)

[0]

Primary author(s) : MISHIMA, Kenji (University of Tsukuba)

Co-author(s): SHOJI, Mitsuo (Center for Computational Sciences, University of Tsukuba); Dr MIYAGAWA, Koichi (Center for Computational Sciences, University of Tsukuba)

Track Classification : Life Science(生命分野)

Contribution ID : 26

Type : MCRP-M

## Nucleon structure from lattice QCD at the physical point

Email

ssasaki@nucl.phys.tohoku.ac.jp

Number of project members

4

Cygnus: Project code

[NUCLFF]

Cygnus: Requested [awarded] node-hour product

50,000 [15,000]

Cygnus: Requested [awarded] disk capacity (TB)

[100]

OFP: Project code

[xg18i012]

OFP: Requested [awarded] node-hour product

1,000,000 [255,000] [update 331,500]

OFP: Requested [awarded] disk capacity (TB)

[200]

Primary author(s) : SASAKI, Shoichi (Tohoku University)

Track Classification : Nuclear Physics(原子核分野)

Contribution ID : 27

Type : MCRP-M

## Non-perturbative renormalization for nucleon structure in lattice QCD

Email

tsuji@nucl.phys.tohoku.ac.jp

Number of project members

4

Cygnus: Project code

NNPR [No]

Cygnus: Requested [awarded] node-hour product

20000 [0]

Cygnus: Requested [awarded] disk capacity (TB)

60 [0]

OFP: Project code

No [xg21i027]

OFP: Requested [awarded] node-hour product

300,000 [206,550]

OFP: Requested [awarded] disk capacity (TB)

[60]

Primary author(s) : TSUJI, Ryutaro

Track Classification : Nuclear Physics(原子核分野)

Contribution ID : 28

Type : MCRP-S

## Development of a hierarchical parallel numerical algorithm for saddle point problems

Email

tadano@cs.tsukuba.ac.jp

Number of project members

9

Cygnus: Project code

[HPNA4SPP]

Cygnus: Requested [awarded] node-hour product

3,000 [2,430]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[No]

OFP: Requested [awarded] node-hour product

[0]

OFP: Requested [awarded] disk capacity (TB)

[0]

Primary author(s) : TADANO, Hiroto (Center for Computational Sciences, University of Tsukuba)

Track Classification : Numerical analysis(数值解析分野)

Contribution ID : 29

Type : MCRP-L

## Dynamics and transient astronomical events of star clusters

Email

tanikawa@ea.c.u-tokyo.ac.jp

Number of project members

4

Cygnus: Project code

cluster [TRANSIENT]

Cygnus: Requested [awarded] node-hour product

[50,000]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[xg18i004]

OFP: Requested [awarded] node-hour product

[300,000]

OFP: Requested [awarded] disk capacity (TB)

[40]

Primary author(s) : Dr TANIKAWA, Ataru (The University of Tokyo)

Track Classification : Astrophysics(宇宙分野)

Contribution ID : 30

Type : MCRP-M

## Calculation of K meson decay amplitude from lattice QCD

Email

ishizuka@ccs.tsukuba.ac.jp

Number of project members

3

Cygnus: Project code

[No]

Cygnus: Requested [awarded] node-hour product

[0]

Cygnus: Requested [awarded] disk capacity (TB)

[0]

OFP: Project code

[xg18i031]

OFP: Requested [awarded] node-hour product

300,000 [206,550]

OFP: Requested [awarded] disk capacity (TB)

[150]

Primary author(s) : ISHIZUKA, Naruhito (Center for Computational Physics, University of Tsukuba)

Track Classification : Particle Physics(素粒子分野)

Contribution ID : 31

Type : MCRP-M

## Research for the establishment of standard computational dosimetry method for BNCT

Email

kumada@pmrc.tsukuba.ac.jp

Number of project members

5

Cygnus: Project code

[No]

Cygnus: Requested [awarded] node-hour product

[0]

Cygnus: Requested [awarded] disk capacity (TB)

[0]

OFP: Project code

[xg18i029]

OFP: Requested [awarded] node-hour product

209,520 [178,092] [update 213,092]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : KUMADA, Hiroaki (University of Tsukuba)

Track Classification : Life Science(生命分野)

Contribution ID : 32

Type : MCRP-M

## Development of next generation parallel algorithms and software for solving large-scale eigenvalue problems

Email

sakurai@cs.tsukuba.ac.jp

Number of project members

10

Cygnus: Project code

[NGNAS]

Cygnus: Requested [awarded] node-hour product

[5,000]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[xg18i046]

OFP: Requested [awarded] node-hour product

225,000 [172,125]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : SAKURAI, Tetsuya (University of Tsukuba)

Track Classification : Numerical analysis(数值解析分野)

Contribution ID : 33

Type : MCRP-M

## Study on QCD phase structure

Email

hohno@ccs.tsukuba.ac.jp

Number of project members

3

Cygnus: Project code

[DENSEQCD]

Cygnus: Requested [awarded] node-hour product

20,000 [16,000] [update 20,800]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[xg18i055]

OFP: Requested [awarded] node-hour product

300,000 [255,000] [update 331,500]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : OHNO, Hiroshi (University of Tsukuba)

Track Classification : Particle Physics(素粒子分野)

Contribution ID : 35

Type : MCRP-S

## Evaluation of changes in biomolecule stability and function due to amino acid substitution

Email

ayori@meiji.ac.jp

Number of project members

5

Cygnus: Project code

[PRORISM]

Cygnus: Requested [awarded] node-hour product

3,500 [2,835]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[No]

OFP: Requested [awarded] node-hour product

[0]

OFP: Requested [awarded] disk capacity (TB)

[0]

Primary author(s) : Dr MITSUTAKE, Ayori (Meiji Univ.)

Track Classification : Life Science(生命分野)

Contribution ID : 36

Type : MCRP-FPGA

## Task-based parallel programming model for large-scale heterogenous system

Email

msato@riken.jp

Number of project members

8

Cygnus: Project code

[XMPF]

Cygnus: Requested [awarded] node-hour product

[10000]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[No]

OFP: Requested [awarded] node-hour product

[0]

OFP: Requested [awarded] disk capacity (TB)

[0]

Primary author(s) : SATO, Mitsuhsa (RIKEN R-CCS)

Track Classification : High-performance computing system(超高速計算システム分野)

Contribution ID : 37

Type : MCRP-S

## Nuclear resonances close to the threshold energies

Email

taniguchi-y@di.kagawa-nct.ac.jp

Number of project members

4

Cygnus: Project code

[No]

Cygnus: Requested [awarded] node-hour product

[0]

Cygnus: Requested [awarded] disk capacity (TB)

[0]

OFP: Project code

[xg18i007]

OFP: Requested [awarded] node-hour product

50,000 [45,000]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : Dr TANIGUCHI, Yasutaka (National Institute of Technology (KOSEN), Kagawa College)

Track Classification : Nuclear Physics(原子核分野)

Contribution ID : 38

Type : MCRP-M

## Formation and evolution of local galaxies

Email

mmori@ccs.tsukuba.ac.jp

Number of project members

9

Cygnus: Project code

[GALAXY]

Cygnus: Requested [awarded] node-hour product

20,000 [12,960]

Cygnus: Requested [awarded] disk capacity (TB)

[150]

OFP: Project code

[xg18i032]

OFP: Requested [awarded] node-hour product

200,000 [170,000]

OFP: Requested [awarded] disk capacity (TB)

[150]

Primary author(s) : MORI, Masao (University of Tsukuba); Dr MIKI, Yohei (University of Tokyo); Dr KIRIHARA, Takanobu (Konan University); Mr OTAKI, Koki (University of Tsukuba); Mr KAZUNO, Yudai (University of Tsukuba); Mr TANAKA, Shunji (University of Tsukuba); Ms KANEDA, Yuka (University of Tsukuba); Ms HOTTA, Ayami (University of Tsukuba); Mr YUASA, Takuhiro (University of Tsukuba)

Track Classification : Astrophysics(宇宙分野)

Contribution ID : 39

Type : MCRP-M

## Study of QCD with finite temperature

Email

nakamura@riken.jp

Number of project members

3

Cygnus: Project code

[XQCD]

Cygnus: Requested [awarded] node-hour product

20,000 [16,000] [update 20,800]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[xg18i005]

OFP: Requested [awarded] node-hour product

300,000 [255,000] [update 331,500]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : NAKAMURA, Yoshifumi (RIKEN)

Track Classification : Particle Physics(素粒子分野)

Contribution ID : 40

Type : MCRP-M

## Calculation of physical quantities of hadrons near physical quark masses from lattice QCD

Email

yamazaki@het.ph.tsukuba.ac.jp

Number of project members

4

Cygnus: Project code

[LATNUC]

Cygnus: Requested [awarded] node-hour product

50,000 [15,000]

Cygnus: Requested [awarded] disk capacity (TB)

[100]

OFP: Project code

[xg18i027]

OFP: Requested [awarded] node-hour product

1,000,000 [255,000] [update 331,500]

OFP: Requested [awarded] disk capacity (TB)

[180]

Primary author(s) : YAMAZAKI, Takeshi (University of Tsukuba)

Track Classification : Particle Physics(素粒子分野)

Contribution ID : 41

Type : MCRP-FPGA

## Reduced/Extended/Mixed-precision matrix computations on FPGAs and GPGPUs

Email

imamura.toshiyuki@riken.jp

Number of project members

5

Cygnus: Project code

[LSPANC]

Cygnus: Requested [awarded] node-hour product

[10000]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[No]

OFP: Requested [awarded] node-hour product

[0]

OFP: Requested [awarded] disk capacity (TB)

[0]

Primary author(s) : IMAMURA, Toshiyuki (RIKEN Center for Computational Science)

Track Classification : Computational informatics(計算情報学分野)

Contribution ID : 42

Type : MCRP-S

## Implementation of Lattice QCD common code to large scale parallel supercomputer with manycore and GPU architecture

Email

hidekatsu.nemura@rcnp.osaka-u.ac.jp

Number of project members

8

Cygnus: Project code

[BRIDGE]

Cygnus: Requested [awarded] node-hour product

1,000 [900]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[xg18i014]

OFP: Requested [awarded] node-hour product

16,000 [14,400]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : NEMURA, Hidekatsu (Research Center for Nuclear Physics, Osaka University)

Track Classification : Particle Physics(素粒子分野)

Contribution ID : 43

Type : MCRP-L

## Topological excitation of QCD near the critical temperature

Email

hfukaya@het.phys.sci.osaka-u.ac.jp

Number of project members

7

Cygnus: Project code

[No]

Cygnus: Requested [awarded] node-hour product

[0]

Cygnus: Requested [awarded] disk capacity (TB)

[0]

OFP: Project code

[xg18i023]

OFP: Requested [awarded] node-hour product

[449,280] [update 718,780]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : FUKAYA, Hidenori

Track Classification : Particle Physics(素粒子分野)

Contribution ID : 44

Type : MCRP-M

## A fundamental research for the tritium contaminated water problem by nuclear ab-initio calculation

Email

aoyama@cais.niigata-u.ac.jp

Number of project members

1

Cygnus: Project code

[No]

Cygnus: Requested [awarded] node-hour product

[0]

Cygnus: Requested [awarded] disk capacity (TB)

[0]

OFP: Project code

[xg19i020]

OFP: Requested [awarded] node-hour product

230,000 [175,950]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : AOYAMA, Shigeyoshi

Track Classification : Nuclear Physics(原子核分野)

Contribution ID : 45

Type : MCRP-S

## Simulations of black hole accretion flows using GR-RMHD code INAZUMA

Email

asahinyt@ccs.tsukuba.ac.jp

Number of project members

5

Cygnus: Project code

[No]

Cygnus: Requested [awarded] node-hour product

[0]

Cygnus: Requested [awarded] disk capacity (TB)

[0]

OFP: Project code

[xg19i039]

OFP: Requested [awarded] node-hour product

50,000 [40,500] [update 52,650]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : ASAHINA, Yuta

Track Classification : Astrophysics(宇宙分野)

Contribution ID : 46

Type : MCRP-M

## Light-Matter Interaction Dynamics of Solid State Systems by Time-Dependent Density Functional Theory and Molecular Simulation

Email

ayamada@ccs.tsukuba.ac.jp

Number of project members

2

Cygnus: Project code

[No]

Cygnus: Requested [awarded] node-hour product

[0]

Cygnus: Requested [awarded] disk capacity (TB)

[0]

OFP: Project code

[xg19i040]

OFP: Requested [awarded] node-hour product

300,000 [255,000]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : YAMADA, Atsushi (University of Tsukuba)

Track Classification : Material Science(物質科学分野)

Contribution ID : 48

Type : MCRP-M

## Cosmological simulations of coevolution between galaxies and their central supermassive black holes

Email

okamoto@astro1.sci.hokudai.ac.jp

Number of project members

1

Cygnus: Project code

[No]

Cygnus: Requested [awarded] node-hour product

[0]

Cygnus: Requested [awarded] disk capacity (TB)

[0]

OFP: Project code

[xg18i051]

OFP: Requested [awarded] node-hour product

300,000 [255,000]

OFP: Requested [awarded] disk capacity (TB)

[100]

Primary author(s) : OKAMOTO, Takashi (Hokkaido University)

Track Classification : Astrophysics(宇宙分野)

Contribution ID : 49

Type : MCRP-M

## Theoretical investigation of molecular mechanisms of electron, proton and energy transfer reactions in proteins

Email

ksaito@appchem.t.u-tokyo.ac.jp

Number of project members

13

Cygnus: Project code

[PROTEIN]

Cygnus: Requested [awarded] node-hour product

13,500 [10,800]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[xg18i041]

OFP: Requested [awarded] node-hour product

300,000 [255,000]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : SAITO, Keisuke (University of Tokyo)

Track Classification : Biology(生物分野)

Contribution ID : 50

Type : MCRP-FPGA

## Development of Computing Platform based on Transprecision and Inter-GPU Streaming Mechanism for HPC

Email

hanawa@cc.u-tokyo.ac.jp

Number of project members

13

Cygnus: Project code

[CSPP]

Cygnus: Requested [awarded] node-hour product

[5000]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[No]

OFP: Requested [awarded] node-hour product

[0]

OFP: Requested [awarded] disk capacity (TB)

[0]

Primary author(s) : Prof. HANAWA, Toshihiro (The University of Tokyo)

Track Classification : High-performance computing system(超高速計算システム分野)

Contribution ID : 51

Type : MCRP-L

## B meson physics from lattice QCD for search of new physics

Email

takashi.kaneko@kek.jp

Number of project members

4

Cygnus: Project code

[No]

Cygnus: Requested [awarded] node-hour product

[0]

Cygnus: Requested [awarded] disk capacity (TB)

[0]

OFP: Project code

[xg18i016]

OFP: Requested [awarded] node-hour product

[695,950]

OFP: Requested [awarded] disk capacity (TB)

[200]

Primary author(s) : KANEKO, Takashi (KEK)

Track Classification : Particle Physics(素粒子分野)

Contribution ID : 52

Type : MCRP-M

## Ab-initio study of nanoscale optical and electronics devices

Email

uemoto@eedept.kobe-u.ac.jp

Number of project members

6

Cygnus: Project code

[No]

Cygnus: Requested [awarded] node-hour product

[0]

Cygnus: Requested [awarded] disk capacity (TB)

[0]

OFP: Project code

xg18i053 [xg19i062]

OFP: Requested [awarded] node-hour product

30,000 [27,000]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : Dr UEMOTO, Mitsuharu (Kobe University)

Track Classification : Material Science(物質科学分野)

Contribution ID : 53

Type : MCRP-S

## Numerical Simulations for Local strong winds and Clear Air Turbulence due to topography using High Resolution Model

Email

akifumi.nishi@gmail.com

Number of project members

1

Cygnus: Project code

[No]

Cygnus: Requested [awarded] node-hour product

[0]

Cygnus: Requested [awarded] disk capacity (TB)

[0]

OFP: Project code

No [xg21i053]

OFP: Requested [awarded] node-hour product

20,000 [18,000]

OFP: Requested [awarded] disk capacity (TB)

20

Primary author(s) : NISHI, Akifumi (National Defense Academy of Japan)

Track Classification : Global environment(地球環境分野)

Contribution ID : 54

Type : MCRP-M

## Exploring the origin of glueball mass

Email

sakai@nucl.phys.tohoku.ac.jp

Number of project members

4

Cygnus: Project code

[YMFGBL]

Cygnus: Requested [awarded] node-hour product

20,000 [16,000]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[No]

OFP: Requested [awarded] node-hour product

[0]

OFP: Requested [awarded] disk capacity (TB)

[0]

Primary author(s) : SAKAI, Keita (Tohoku University)

Track Classification : Nuclear Physics(原子核分野)

Contribution ID : 55

Type : MCRP-M

## First-principles calculation of optical response of meta- and bulk surfaces

Email

yabana@nucl.ph.tsukuba.ac.jp

Number of project members

7

Cygnus: Project code

[TDDFT]

Cygnus: Requested [awarded] node-hour product

5,000 [5,000]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[xg20i064]

OFP: Requested [awarded] node-hour product

300,000 [283,333]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : YABANA, Kazuhiro

Track Classification : Material Science(物質科学分野)

Contribution ID : 56

Type : MCRP-M

## Research of storage system

Email

tatebe@cs.tsukuba.ac.jp

Number of project members

9

Cygnus: Project code

[NBB]

Cygnus: Requested [awarded] node-hour product

20,000 [12,960]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[No]

OFP: Requested [awarded] node-hour product

[0]

OFP: Requested [awarded] disk capacity (TB)

[0]

Primary author(s) : TATEBE, Osamu (University of Tsukuba)

Track Classification : High-performance computing system(超高速計算システム分野)

Contribution ID : 57

Type : MCRP-M

## Thermodynamics of 2+1 flavor QCD with the gradient-flow

Email

kanaya@ccs.tsukuba.ac.jp

Number of project members

5

Cygnus: Project code

[WHOTSPOTC]

Cygnus: Requested [awarded] node-hour product

23,000 [12,150]

Cygnus: Requested [awarded] disk capacity (TB)

[100]

OFP: Project code

[xg18i021]

OFP: Requested [awarded] node-hour product

900,000 [255,000]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : KANAYA, Kazuyuki (Univ. of Tsukuba)

Track Classification : Particle Physics(素粒子分野)

Contribution ID : 58

Type : MCRP-M

## Studies on the Urban Climate and Mountain Weather Using the WRF and CM1 Models

Email

doan.van.gb@u.tsukuba.ac.jp

Number of project members

20

Cygnus: Project code

[No]

Cygnus: Requested [awarded] node-hour product

[0]

Cygnus: Requested [awarded] disk capacity (TB)

[0]

OFP: Project code

[xg20i044]

OFP: Requested [awarded] node-hour product

300,000 [229,500]

OFP: Requested [awarded] disk capacity (TB)

[500]

Primary author(s) : DOAN, Quang Van (University of Tsukuba)

Track Classification : Global environment(地球環境分野)

Contribution ID : 59

Type : MCRP-M

## First-principles calculations of light-matter interaction for core electrons and magnetic systems

Email

syamada@ccs.tsukuba.ac.jp

Number of project members

4

Cygnus: Project code

[TDDFTGPU]

Cygnus: Requested [awarded] node-hour product

20,000 [16,000]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[xg20i058]

OFP: Requested [awarded] node-hour product

300,000 [255,000]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : YAMADA, Shunsuke (Center for Computational Sciences, University of Tsukuba)

Track Classification : Material Science(物質科学分野)

Contribution ID : 60

Type : MCRP-S

## Automatic planning of radiation therapy for breast cancer using deep learning

Email

m-oya@juntendo.ac.jp

Number of project members

2

Cygnus: Project code

[JUNTENMP]

Cygnus: Requested [awarded] node-hour product

5,000 [4,500]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[No]

OFP: Requested [awarded] node-hour product

[0]

OFP: Requested [awarded] disk capacity (TB)

[0]

Primary author(s) : OYA, Megumi (Juntendo University)

Track Classification : Computational informatics(計算情報学分野)

Contribution ID : 61

Type : MCRP-S

## A light field capturing system using multiple omnidirectional cameras

Email

li.qiaoge@image.iit.tsukuba.ac.jp

Number of project members

4

Cygnus: Project code

[MAGI]

Cygnus: Requested [awarded] node-hour product

5,000 [1,800]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[No]

OFP: Requested [awarded] node-hour product

[0]

OFP: Requested [awarded] disk capacity (TB)

[0]

Primary author(s) : Mr LI, Qiaoge (School of Integrative and Global Majors, Ph.D. Program in Empowerment Informatics, University of Tsukuba)

Track Classification : Computational informatics(計算情報学分野)

Contribution ID : 62

Type : MCRP-S

## Upper atmospheric modeling for constraining carbon cycle on Earth-like exoplanets

Email

aki433776@gmail.com

Number of project members

1

Cygnus: Project code

[No]

Cygnus: Requested [awarded] node-hour product

[0]

Cygnus: Requested [awarded] disk capacity (TB)

[0]

OFP: Project code

No [xg21i062]

OFP: Requested [awarded] node-hour product

50,000 [40,500]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : NAKAYAMA, Akifumi (The University of Tokyo)

Track Classification : Astrophysics(宇宙分野)

Contribution ID : 63

Type : MCRP-S

## Calculation of double-beta decay nuclear matrix elements using QRPA and GCM

Email

hinohara@nucl.ph.tsukuba.ac.jp

Number of project members

1

Cygnus: Project code

[GCM]

Cygnus: Requested [awarded] node-hour product

1,000 [900]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[xg18i060]

OFP: Requested [awarded] node-hour product

30,000 [27,000]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : Dr HINOHARA, Nobuo (University of Tsukuba)

Track Classification : Nuclear Physics(原子核分野)

Contribution ID : 64

Type : MCRP-S

## Relativistic quasi-particle random-phase approximation for collective excitation of deformed atomic nuclei

Email

gz2r2dhh@gmail.com

Number of project members

1

Cygnus: Project code

REDF2021 [No]

Cygnus: Requested [awarded] node-hour product

5,000 [0]

Cygnus: Requested [awarded] disk capacity (TB)

[0]

OFP: Project code

No [xg21i064]

OFP: Requested [awarded] node-hour product

0 [40,500]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : OISHI, TOMOHIRO (University of Zagreb)

Track Classification : Nuclear Physics(原子核分野)

Contribution ID : 65

Type : MCRP-L

## First-principles Lattice QCD calculation of Hadron interactions

Email

doi@ribf.riken.jp

Number of project members

18

Cygnus: Project code

[HALQCD]

Cygnus: Requested [awarded] node-hour product

[2,000]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[xg19i074]

OFP: Requested [awarded] node-hour product

[929,500]

OFP: Requested [awarded] disk capacity (TB)

[40]

Primary author(s) : DOI, Takumi (RIKEN)

Track Classification : Nuclear Physics(原子核分野)

Contribution ID : 66

Type : MCRP-M

## Numerical studies on impact resistance mitigation mechanism using high-strength CNT

Email

tejima@rist.or.jp

Number of project members

5

Cygnus: Project code

SYOGEKI [CNTION]

Cygnus: Requested [awarded] node-hour product

20,000 [16,000]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[No]

OFP: Requested [awarded] node-hour product

[0]

OFP: Requested [awarded] disk capacity (TB)

[0]

Primary author(s) : Dr TEJIMA, Syogo (Research Organization for Information Science and Technology)

Track Classification : Material Science(物質科学分野)

Contribution ID : 67

Type : MCRP-M

## First-principles and quantum many-body calculations for electronic states and superconductivity in the complicated multi-band systems

Email

y.ono@phys.sc.niigata-u.ac.jp

Number of project members

9

Cygnus: Project code

xc18i068 [SCES702]

Cygnus: Requested [awarded] node-hour product

10,000 [8,000]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[xg18i068]

OFP: Requested [awarded] node-hour product

200,000 [170,000]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : ONO, Yoshiaki (Niigata University)

Track Classification : Material Science(物質科学分野)

Contribution ID : 68

Type : MCRP-M

## Study on the quark confinement based on the dual superconductivity

Email

akihiro.shibata@kek.jp

Number of project members

4

Cygnus: Project code

[QCONFINE]

Cygnus: Requested [awarded] node-hour product

20,000 [11,664]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[xg19i078]

OFP: Requested [awarded] node-hour product

300,000 [229,500] [update 298,350]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : SHIBATA, Akihiro (KEK)

Track Classification : Particle Physics(素粒子分野)

Contribution ID : 69

Type : MCRP-S

## Load Balancing among Compute Nodes with Dynamic Precision Adjustment

Email

yasutaka.wada@meisei-u.ac.jp

Number of project members

5

Cygnus: Project code

AAC [DPA]

Cygnus: Requested [awarded] node-hour product

5,000 [3,645]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

No [xg21i069]

OFP: Requested [awarded] node-hour product

50,000 [45,000]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : WADA, Yasutaka (Meisei University)

Track Classification : High-performance computing system(超高速計算システム分野)

Contribution ID : 70

Type : MCRP-M

## Dynamics and Ligand Binding of MAO-B and Tau fibril

Email

masaki@miyashita-lab.net

Number of project members

2

Cygnus: Project code

[MAOBTAU]

Cygnus: Requested [awarded] node-hour product

19,737 [15,790]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[No]

OFP: Requested [awarded] node-hour product

[0]

OFP: Requested [awarded] disk capacity (TB)

[0]

Primary author(s) : OTTAWA, Masaki (KINDAI Univ.)

Track Classification : Biology(生物分野)

Contribution ID : 71

Type : MCRP-M

## Novel structure analysis method for two-dimensional material by massively parallel data-driven science

Email

hoshi@tottori-u.ac.jp

Number of project members

7

Cygnus: Project code

No

Cygnus: Requested [awarded] node-hour product

[0]

Cygnus: Requested [awarded] disk capacity (TB)

[0]

OFP: Project code

[xg20i060]

OFP: Requested [awarded] node-hour product

300,000 [283,333]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : HOSHI, Takeo (Tottori University)

Track Classification : Material Science(物質科学分野)

Contribution ID : 72

Type : MCRP-S

## Theory of electronic devices by large-scale first-principles charge transport calculations

Email

nkoba@bk.tsukuba.ac.jp

Number of project members

6

Cygnus: Project code

[CMSLAB]

Cygnus: Requested [awarded] node-hour product

5,000 [4,500]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[xg19i070]

OFP: Requested [awarded] node-hour product

20,000 [18,000]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : KOBAYASHI, Nobuhiko (Univ Tsukuba)

Track Classification : Material Science(物質科学分野)

Contribution ID : 73

Type : MCRP-M

## High precision computation of QCD coupling constant

Email

eigo.shintani@gmail.com

Number of project members

1

Cygnus: Project code

muong2 [No]

Cygnus: Requested [awarded] node-hour product

[0]

Cygnus: Requested [awarded] disk capacity (TB)

[0]

OFP: Project code

[xg18i015]

OFP: Requested [awarded] node-hour product

300,000 [283,333] [update 368,333]

OFP: Requested [awarded] disk capacity (TB)

[230]

Primary author(s) : SHINTANI, Eigo (Tsukuba Univ.)

Track Classification : Particle Physics(素粒子分野)

Contribution ID : 74

Type : MCRP-M

## Development of first-principles calculation code RSPACE and simulation for transport property of interfaces

Email

t.ono@eedept.kobe-u.ac.jp

Number of project members

10

Cygnus: Project code

[RSPACE]

Cygnus: Requested [awarded] node-hour product

1,000 [900]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[xg18i053]

OFP: Requested [awarded] node-hour product

296,800 [227,052]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : ONO, Tomoya (Kobe University)

Track Classification : Material Science(物質科学分野)

Contribution ID : 75

Type : MCRP-M

## Magnetohydrodynamics simulation in the galactic center region

Email

kakiuchi@nagoya-u.jp

Number of project members

3

Cygnus: Project code

[No]

Cygnus: Requested [awarded] node-hour product

[0]

Cygnus: Requested [awarded] disk capacity (TB)

[0]

OFP: Project code

No [xg21i075]

OFP: Requested [awarded] node-hour product

240,000 [204,000]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : KAKIUCHI, Kensuke (Nagoya university)

Track Classification : Astrophysics(宇宙分野)

Contribution ID : 76

Type : MCRP-M

## Functional renormalization group study on the effects of carrier doping into Kitaev materials

Email

yusuke@phys.c.u-tokyo.ac.jp

Number of project members

2

Cygnus: Project code

[QSLFRG]

Cygnus: Requested [awarded] node-hour product

20,000 [16,000]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[xg20i046]

OFP: Requested [awarded] node-hour product

300,000 [255,000]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : KATO, Yusuke (Univ. Tokyo)

Track Classification : Material Science(物質科学分野)

Contribution ID : 77

Type : MCRP-M

## Theoretical Studies on the dynamics of Atoms and Molecules in Strong Laser Fields

Email

tong.xiaomin.ga@u.tsukuba.ac.jp

Number of project members

1

Cygnus: Project code

[LASER]

Cygnus: Requested [awarded] node-hour product

4,000 [2,592]

Cygnus: Requested [awarded] disk capacity (TB)

[15]

OFP: Project code

[xg18i047]

OFP: Requested [awarded] node-hour product

60,000 [36,720]

OFP: Requested [awarded] disk capacity (TB)

[20]

Primary author(s) : TONG, Xiao-Min (Center for Computational Science, University of Tsukuba, Japan)

Track Classification : Material Science(物質科学分野)