

(資料)

2007年度入力データ Data-Entries of 2007

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1 今年度入力論文リスト

今年度は以下の雑誌からデータの収集を行った。データの収録にあたっては多くの著者の方々の貴重な協力が得ることができ、これにより質の高いデータ収集を実施することができた。今後とも、著者との協力体制を強化して、著者の持つ数値データを直接入力する努力を続けていきたい。

今年度は収集データ量が多くなっていることが図 1 から分かる。これは昨年度集中的に学位論文などから数値データを入力して作成したファイルが順次完成し IAEA に送られたことによるものである。

- Physical Review Letters
- Physical Review C
- Nuclear Instrument and Methods in Physics Research A
- Nuclear Instrument and Methods in Physics Research B
- Journal of the Physical Society of Japan
- Nuclear Physics A
- Nuclear Physics B
- Nuclear Science and Engineering
- Progress of Theoretical Physics
- Radiochimica Acta
- Physics Letters, Section B
- European Physical Journal A
- Zeitschrift Für Physik A
- Journal of Nuclear and Radiochemical Sciences
- Journal of Nuclear Science and Technology
- Modern Physics Letters A

- Memoirs of Faculty of Science, Kyoto Univ., Ser.A
- Chemistry Letters

今年度の収集論文全 75 編のリストを以下に示す。

Data 2006

Title Analyzing powers of polarized deuterons in low-energy ${}^6\text{Li}(d,\alpha){}^4\text{He}$ and ${}^6\text{Li}(d,p){}^7\text{Li}$ reactions in a resonance region
 Author M.Yamaguchi *et al.*
 Reference Phys.Rev.C **74** (2006) 064606
 Table Total : 9 EXFOR : 9 Author : 0 Table : 9 Curve : 0 Unobt : 0

Data 2007

Title Magnitude factor systematics of Kalbach phenomenology for reactions emitting helium and lithium ions
 Author Y.Uozumi *et al.*
 Reference Nucl.Instrum.Methods A **571** (2007) 743
 Table Total : 67 EXFOR : 67 Author : 0 Table : 67 Curve : 0 Unobt : 0

Data 2008

Title Absolute calibration of the deuteron beam polarization at intermediate energies via the ${}^{12}\text{C}(d,\alpha){}^{10}\text{B}^{*}[2+]$ reaction
 Author K.Suda *et al.*
 Reference Nucl.Instrum.Methods A **572** (2007) 745
 Table Total : 8 EXFOR : 8 Author : 0 Table : 8 Curve : 0 Unobt : 0

Data 2009

Title Isovector effective NN interaction in ${}^{28}\text{Si}(p,n){}^{28}\text{P}(6-)$ at 198 MeV
 Author T.Wakasa *et al.*
 Reference Phys.Lett.B **645** (2007) 402
 Table Total : 1 EXFOR : 1 Author : 1 Table : 0 Curve : 0 Unobt : 0

Data 2010

Title Fragmentation cross sections of ${}^{28}\text{Si}$ at beam energies from 290A to 1200A MeV
 Author C.Zeitlin *et al.*
 Reference Nucl.Phys.A **784** (2007) 341
 Table Total : 12 EXFOR : 12 Author : 0 Table : 12 Curve : 0 Unobt : 0

Data 2011

Title Measurements of interaction cross sections and radii of He isotopes
Author I.Tanihata *et al.*
Reference Phys.Lett.B **160** (1985) 380
Table Total : 12 EXFOR : 12 Author : 0 Table : 12 Curve : 0 Unobt : 0

Data 2012

Title Determination of the density distribution and the correlation of halo neutrons in ^{11}Li
Author I.Tanihata *et al.*
Reference Phys.Lett.B **287** (1992) 307
Table Total : 6 EXFOR : 6 Author : 0 Table : 4 Curve : 2 Unobt : 0

Data 2013

Title Interaction cross sections and radii of the mass number $A=17$ isobar (^{17}N , ^{17}F , and ^{17}Ne)
Author A.Ozawa *et al.*
Reference Phys.Lett.B **334** (1994) 18
Table Total : 9 EXFOR : 9 Author : 0 Table : 9 Curve : 0 Unobt : 0

Data 2014

Title Interaction cross-sections and radii of ^{11}C and ^{12}N and effective deformation parameters in light mirror nuclei
Author A.Ozawa *et al.*
Reference Nucl.Phys.A **583** (1995) 807
Table Total : 6 EXFOR : 6 Author : 0 Table : 6 Curve : 0 Unobt : 0

Data 2015

Title Interaction cross sections and radii of light nuclei
Author A.Ozawa *et al.*
Reference Nucl.Phys.A **608** (1996) 63
Table Total : 24 EXFOR : 24 Author : 0 Table : 24 Curve : 0 Unobt : 0

Data 2016

Title Interaction cross section and interaction radius of the ^8B nucleus
Author M.M.Obuti *et al.*
Reference Nucl.Phys.A **609** (1996) 74
Table Total : 1 EXFOR : 1 Author : 0 Table : 1 Curve : 0 Unobt : 0

Data 2017

Title Coulomb dissociation of ^{19}C and its halo structure
Author T.Nakamura *et al.*
Reference Phys.Rev.Lett. **83** (1999) 1112
Table Total : 5 EXFOR : 5 Author : 0 Table : 2 Curve : 3 Unobt : 0

Data 2018

Title Excited states in neutron rich boron isotopes
Author R.Kanungo *et al.*
Reference Phys.Lett.B **608** (2005) 206
Table Total : 3 EXFOR : 3 Author : 0 Table : 3 Curve : 0 Unobt : 0

Data 2019

Title Heavy-ion reactions of Cu with 135 MeV/nucleon ^{12}C
Author Y.K.Kim *et al.*
Reference Nucl.Phys.A **578** (1994) 621
Table Total : 6 EXFOR : 6 Author : 0 Table : 6 Curve : 0 Unobt : 0

Data 2020

Title Spectroscopic study of neutron shell closures via nucleon transfer in the near-dripline nucleus ^{23}O
Author Z.Elekes *et al.*
Reference Phys.Rev.Lett. **98** (2007) 102502
Table Total : 2 EXFOR : 2 Author : 1 Table : 1 Curve : 0 Unobt : 0

Data 2021

Title Photofission of ^{197}Au at intermediate energies
Author H.Haba *et al.*
Reference J.Nucl.Radiochem.Sci. **1** (2000) 53
Table Total : 58 EXFOR : 58 Author : 58 Table : 0 Curve : 0 Unobt : 0

Data 2022

Title Photofission of ^{209}Bi at intermediate energies
Author H.Haba *et al.*
Reference Radiochim.Acta **90** (2002) 371
Table Total : 63 EXFOR : 63 Author : 63 Table : 0 Curve : 0 Unobt : 0

Data 2023

Title Target-dependence of light fragment production in photonuclear reactions at intermediate energies
Author H.Matsumura *et al.*
Reference Radiochim.Acta **88** (2000) 313
Table Total : 131 EXFOR : 131 Author : 131 Table : 0 Curve : 0 Unobt : 0

Data 2024

Title Yield measurements for ⁷Be and ¹⁰Be productions from natCu, natAg and ¹⁹⁷Au by bremsstrahlung irradiation at E₀=200 MeV
Author H.Matsumura *et al.*
Reference Nucl.Instrum.Methods B **223-224** (2004) 807
Table Total : 6 EXFOR : 6 Author : 0 Table : 6 Curve : 0 Unobt : 0

Data 2025

Title Yield measurements of ⁷Be and ¹⁰Be produced by photonuclear reactions at intermediate energies
Author S.Shibata *et al.*
Reference Radiochim.Acta **80** (1998) 181
Table Total : 12 EXFOR : 12 Author : 0 Table : 12 Curve : 0 Unobt : 0

Data 2026

Title Rare gas isotope yields in Bremsstrahlung-induced nuclear reactions of ⁴¹K, ⁸⁷Rb, ¹²⁷I, ¹³³Cs, and ¹³⁹La
Author Y.Oura *et al.*
Reference Radiochim.Acta **68** (1995) 27
Table Total : 21 EXFOR : 21 Author : 0 Table : 21 Curve : 0 Unobt : 0

Data 2027

Title Photospallation of complex nuclei at intermediate energies I
Author S.R.Sarkar *et al.*
Reference Radiochim.Acta **55** (1991) 113
Table Total : 282 EXFOR : 282 Author : 0 Table : 0 Curve : 0 Unobt : 0

Data 2028

Title Photonuclear spallation reactions in Cu
Author S.Shibata *et al.*
Reference Phys.Rev.C **35** (1987) 254
Table Total : 30 EXFOR : 30 Author : 0 Table : 30 Curve : 0 Unobt : 0

Data 2029

Title Barium and xenon isotope yields in photopion reactions of ^{133}Cs
Author K.Sakamoto *et al.*
Reference Phys.Rev.C **42** (1990) 1545
Table Total : 11 EXFOR : 11 Author : 0 Table : 11 Curve : 0 Unobt : 0

Data 2030

Title Chromium and titanium isotopes produced in photonuclear reactions of vanadium, revisited
Author K.Sakamoto *et al.*
Reference Nucl.Phys.A **501** (1989) 693
Table Total : 4 EXFOR : 4 Author : 0 Table : 4 Curve : 0 Unobt : 0

Data 2031

Title On the $^{24}\text{Mg}(t,p)$ reaction in the incident energy range of 1.65-3.4 MeV
Author T.Murata *et al.*
Reference J.Nucl.Sci.Technol. **44** (2007) 1484
Table Total : 88 EXFOR : 88 Author : 88 Table : 0 Curve : 0 Unobt : 0

Data 2032

Title Mass distribution and the total fission cross section in the fission of ^{238}U with protons of energies ranging between 13 and 55 MeV
Author S.Baba *et al.*
Reference Nucl.Phys.A **175** (1971) 177
Table Total : 23 EXFOR : 23 Author : 0 Table : 23 Curve : 0 Unobt : 0

Data 2033

Title Elastic and inelastic scattering of $^{58}\text{Ni}+^{90,94}\text{Zr}$
Author Y.Sugiyama *et al.*
Reference Eur.J.Phys.A **4** (1999) 157
Table Total : 10 EXFOR : 10 Author : 0 Table : 10 Curve : 0 Unobt : 0

Data 2034

Title Cumulative yields of short-lived Ru isotopes in the ^{12}C - and ^{19}F -induced fission of ^{233}U , ^{235}U , ^{238}U and ^{237}Np
Author N.Shinohara *et al.*
Reference Radiochim.Acta **68** (1995) 21
Table Total : 8 EXFOR : 8 Author : 0 Table : 8 Curve : 0 Unobt : 0

Data 2035

Title Elastic and inelastic scattering of protons by oxygen in the energy region of 6.9 MeV to 15.6 MeV
Author S.Kobayashi *et al.*
Reference J.Phys.Soc.Jpn. **15** (1960) 1164
Table Total : 21 EXFOR : 21 Author : 0 Table : 21 Curve : 0 Unobt : 0

Data 2036

Title Abrupt changes of the characteristics of the proton-induced fission of ^{238}U around 14-MeV excitation
Author H.Baba *et al.*
Reference Z.Phys.A. **356** (1996) 61
Table Total : 8 EXFOR : 8 Author : 0 Table : 8 Curve : 0 Unobt : 0

Data 2037

Title Analog of the giant dipole resonance in ^4He
Author S.Nakayama *et al.*
Reference Phys.Rev.C **76** (2007) 021305
Table Total : 2 EXFOR : 2 Author : 2 Table : 0 Curve : 0 Unobt : 0

Data 2038

Title Elastic scattering of 14 MeV protons by deuterons and by protons
Author S.Kikuchi *et al.*
Reference J.Phys.Soc.Jpn. **15** (1960) 9
Table Total : 3 EXFOR : 3 Author : 0 Table : 3 Curve : 0 Unobt : 0

Data 2039

Title Energy dependence of angular distributions of the reaction $^{27}\text{Al}(p,a)^{24}\text{Mg}$ in the energy region between 10.5 and 14.5 MeV
Author H.Ogata *et al.*
Reference J.Phys.Soc.Jpn. **15** (1960) 1719
Table Total : 74 EXFOR : 74 Author : 0 Table : 74 Curve : 0 Unobt : 0

Data 2040

Title Angular distributions of the reactions $^{59}\text{Co}(p,a)^{56}\text{Fe}$ at 7.7-14.1 MeV and $^{55}\text{Mn}(p,a)^{52}\text{Cr}$ at 7.6-12.9 MeV
Author H.Ogata *et al.*
Reference J.Phys.Soc.Jpn. **15** (1960) 1726
Table Total : 26 EXFOR : 26 Author : 0 Table : 26 Curve : 0 Unobt : 0

Data 2041

Title Measuring system of proton total reaction cross-sections at tandem energy region
Author N.Okumura *et al.*
Reference Nucl.Instrum.Methods A **487** (2002) 565
Table Total : 2 EXFOR : 2 Author : 0 Table : 2 Curve : 0 Unobt : 0

Data 2042

Title Modification of nucleon-nucleon interactions in nuclear medium and neutron densities extracted via proton elastic scattering at intermediate energies
Author H.Takeda *et al.*
Reference MSK/A **44** (2003) 1
Table Total : 15 EXFOR : 15 Author : 0 Table : 15 Curve : 0 Unobt : 0

Data 2043

Title Inelastic proton scattering exciting the gamma-vibrational band in deformed nuclei ($152 \leq A \leq 192$) at 65 MeV and the systematics of the hexadecapole (Y42) strength of the gamma vibration
Author T.Ichihara *et al.*
Reference Phys.Rev.C **36** (1987) 1754
Table Total : 28 EXFOR : 28 Author : 0 Table : 28 Curve : 0 Unobt : 0

Data 2044

Title Phenomenological potential for d-d elastic scattering
Author H.Itoh *et al.*
Reference Prog.Theor.Phys. **39** (1968) 1361
Table Total : 2 EXFOR : 2 Author : 0 Table : 2 Curve : 0 Unobt : 0

Data 2045

Title Evidence for particle stability of ^{31}F and particle instability of ^{25}N and ^{28}O
Author H.Sakurai *et al.*
Reference Phys.Lett.B **448** (1999) 180
Table Total : 2 EXFOR : 2 Author : 0 Table : 2 Curve : 0 Unobt : 0

Data 2046

Title Alpha decay of ^{217}Th populating excited states in ^{213}Ra
Author K.Nishio *et al.*
Reference Phys.Rev.C **61** (2000) 034309
Table Total : 1 EXFOR : 1 Author : 0 Table : 0 Curve : 1 Unobt : 0

Data 2047

Title Examining the exotic structure of the proton-rich nucleus ^{23}Al
Author D.Q.Fang *et al.*
Reference Phys.Rev.C **76** (2007) 031601
Table Total : 3 EXFOR : 3 Author : 1 Table : 2 Curve : 0 Unobt : 0

Data 2048

Title The first $2+$ state of ^{14}Be
Author T.Sugimoto *et al.*
Reference Phys.Lett.B **654** (2007) 160
Table Total : 3 EXFOR : 3 Author : 2 Table : 1 Curve : 0 Unobt : 0

Data 2049

Title Analyzing powers A_{yy} , A_{xx} , A_{xz} and A_y in the $dd \rightarrow ^3\text{He} n$ reaction at 270 MeV
Author M.Janek *et al.*
Reference Eur.J.Phys.A **33** (2007) 39
Table Total : 4 EXFOR : 4 Author : 0 Table : 4 Curve : 0 Unobt : 0

Data 2050

Title Secondary neutron-production cross sections from heavy-ion interactions between 230 and 600 MeV/nucleon
Author L.Heilbronn *et al.*
Reference Nucl.Sci.Eng. **157** (2007) 142
Table Total : 60 EXFOR : 60 Author : 41 Table : 19 Curve : 0 Unobt : 0

Data 2051

Title Experimental determination of deuteron-induced activation cross sections of yttrium
Author M.S.Uddin *et al.*
Reference Radiochim.Acta **95** (2007) 187
Table Total : 7 EXFOR : 7 Author : 0 Table : 7 Curve : 0 Unobt : 0

Data 2052

Title Precision measurement of vector and tensor analyzing powers in elastic deuteron-proton scattering
Author H.Mardanpour *et al.*
Reference Eur.J.Phys.A **31** (2007) 383
Table Total : 8 EXFOR : 8 Author : 0 Table : 8 Curve : 0 Unobt : 0

Data 2053

Title Measurements of total and partial charge-changing cross sections for 200- to 400-MeV/nucleon ^{12}C on water and polycarbonate
Author T.Toshito *et al.*
Reference Phys.Rev.C **75** (2007) 054606
Table Total : 4 EXFOR : 4 Author : 0 Table : 4 Curve : 0 Unobt : 0

Data 2054

Title Experiment on synthesis of an isotope $(Z,A)=(112,277)$ by $^{208}\text{Pb}+^{70}\text{Zn}$ reaction
Author K.Morita *et al.*
Reference J.Phys.Soc.Jpn. **76** (2007) 043201
Table Total : 1 EXFOR : 1 Author : 0 Table : 1 Curve : 0 Unobt : 0

Data 2055

Title Observation of second decay chain from $(Z,A)=(113,278)$
Author K.Morita *et al.*
Reference J.Phys.Soc.Jpn. **76** (2007) 045001
Table Total : 1 EXFOR : 1 Author : 0 Table : 1 Curve : 0 Unobt : 0

Data 2056

Title Test of weak and strong factorization in nucleus-nucleus collisions at several hundred MeV/nucleon
Author C.La Tessa *et al.*
Reference Nucl.Phys.A **791** (2007) 434
Table Total : 12 EXFOR : 12 Author : 0 Table : 12 Curve : 0 Unobt : 0

Data 2057

Title Single-particle resonance levels in ^{14}O examined by $^{13}\text{N}+p$ elastic resonance scattering
Author T.Teranishi *et al.*
Reference Phys.Lett.B **650** (2007) 129
Table Total : 3 EXFOR : 3 Author : 2 Table : 1 Curve : 0 Unobt : 0

Data 2058

Title Elastic and inelastic scattering of π^+ and π^- on ^{12}C at 995 MeV/c
Author K.Aoki *et al.*
Reference Phys.Rev.C **76** (2007) 024610
Table Total : 6 EXFOR : 6 Author : 0 Table : 6 Curve : 0 Unobt : 0

Data 2059

Title Projectile fragmentation of ^{86}Kr at 64 MeV/nuclon
Author M. Mocko *et al.*
Reference Phys.Rev.C **76** (2007) 014609
Table Total : 3 EXFOR : 3 Author : 0 Table : 0 Curve : 0 Unobt : 0

Data 2060

Title New candidate for an alpha cluster condensed state in $^{16}\text{O}(\alpha, \alpha')$ at 400 MeV
Author T.Wakasa *et al.*
Reference Phys.Lett.B **653** (2007) 173
Table Total : 3 EXFOR : 3 Author : 3 Table : 0 Curve : 0 Unobt : 0

Data 2061

Title High-resolution measurement of fine structure in the photoabsorption cross section of ^{18}O
Author H.Harada *et al.*
Reference Phys.Rev.Lett. **80** (1998) 33
Table Total : 2 EXFOR : 2 Author : 1 Table : 1 Curve : 0 Unobt : 0

Data 2062

Title Measurement of the $^{152}\text{Sm}(g, n)$ cross section with laser-Compton scattering gamma rays and the photon difference method
Author K. Y.Hara *et al.*
Reference J.Nucl.Sci.Technol. **44** (2007) 938
Table Total : 2 EXFOR : 2 Author : 2 Table : 0 Curve : 0 Unobt : 0

Data 2063

Title Photoproduction of eta-mesons off C and Cu nuclei for photon energies below 1.1 GeV
Author T.Kinoshita *et al.*
Reference Phys.Lett.B **639** (2006) 429
Table Total : 10 EXFOR : 10 Author : 0 Table : 0 Curve : 10 Unobt : 0

Data 2064

Title Photo-production of neutral kaons on ^{12}C in the threshold region
Author T.Watanabe *et al.*
Reference Phys.Lett.B **651** (2007) 269
Table Total : 5 EXFOR : 5 Author : 0 Table : 0 Curve : 5 Unobt : 0

Data 2065

Title The $^{12}\text{C}(\text{g},\text{K}^+)$ reaction in the threshold region
Author H.Yamazaki *et al.*
Reference Phys.Rev.C **52** (1995) 1157
Table Total : 1 EXFOR : 1 Author : 0 Table : 0 Curve : 1 Unobt : 0

Data 2066

Title The total absorption cross section of 250-550 MeV photons in carbon, aluminium and copper
Author S.Homma *et al.*
Reference J.Phys.Soc.Jpn. **36** (1974) 1499
Table Total : 6 EXFOR : 6 Author : 0 Table : 6 Curve : 0 Unobt : 0

Data 2067

Title Differential cross sections of proton Compton scattering in the energy range between 450 and 950 MeV
Author K.Toshioka *et al.*
Reference Nucl.Phys.B **141** (1978) 364
Table Total : 2 EXFOR : 2 Author : 0 Table : 2 Curve : 0 Unobt : 0

Data 2068

Title Differential cross sections of proton Compton scattering in the resonance region
Author T.Ishii *et al.*
Reference Nucl.Phys.B **165** (1980) 189
Table Total : 3 EXFOR : 3 Author : 0 Table : 3 Curve : 0 Unobt : 0

Data 2069

Title Proton Compton scattering at backward angles in the energy range from 400 MeV to 1050 MeV
Author Y.Wada *et al.*
Reference Nucl.Phys.B **247** (1984) 313
Table Total : 4 EXFOR : 4 Author : 0 Table : 4 Curve : 0 Unobt : 0

Data 2070

Title Total cross section for the gamma d \rightarrow γ pi⁻ pp reaction between 380 and 840 MeV
Author M.Asai *et al.*
Reference Phys.Rev.C **42** (1990) 837
Table Total : 1 EXFOR : 1 Author : 0 Table : 1 Curve : 0 Unobt : 0

Data 2071

Title High-precision measurement of pi- p elastic scattering in a wide angular range at incident momenta between 2.06 and 3.48 GeV/c
Author S.Terada *et al.*
Reference Nucl.Phys.B **175** (1980) 1
Table Total : 8 EXFOR : 8 Author : 0 Table : 8 Curve : 0 Unobt : 0

Data 2072

Title Measurement of differential cross sections for the pi- p ->pi0 n charge exchange scattering from 1969 MeV/c to 2965 MeV/c
Author Y.Suzuki *et al.*
Reference Nucl.Phys.B **294** (1987) 961
Table Total : 7 EXFOR : 7 Author : 0 Table : 7 Curve : 0 Unobt : 0

Data 2073

Title Production of 61Cu by alpha- and 3He bombardments on cobalt target
Author Y.Homma *et al.*
Reference CL **5** (1976) 397
Table Total : 4 EXFOR : 4 Author : 0 Table : 0 Curve : 4 Unobt : 0

Data 2074

Title Radiochemical study on the mechanism of target fragmentation of Cu, Nb, Pr and Au targets induced by 12C and 40Ar projectiles
Author A.Yokoyama *et al.*
Reference Radiochim.Acta **89** (2001) 703
Table Total : 13 EXFOR : 13 Author : 0 Table : 13 Curve : 0 Unobt : 0

Data 2075

Title Study of reaction mechanisms for (p,n) and (p,p') quasi elastic scatterings
Author H.Otsu *et al.*
Reference none **Otsu** (1995) none (注 学位論文)
Table Total : 138 EXFOR : 138 Author : 138 Table : 0 Curve : 0 Unobt : 0

Data 2076

Title A multifoil carbon polarimeter for protons between 20 and 84 MeV
Author M.Ieiri *et al.*
Reference Nucl.Instrum.Methods A **257** (1987) 253
Table Total : 39 EXFOR : 39 Author : 0 Table : 39 Curve : 0 Unobt : 0

Data 2077

Title Tensor anomaly in pd radiative capture
 Author T.Yagita *et al.*
 Reference MPL A**18** (2003) 322
 Table Total : 8 EXFOR : 8 Author : 0 Table : 8 Curve : 0 Unobt : 0

Data 2078

Title Measurement of analyzing powers of the $1\text{H}(d,3\text{He})\gamma$ reaction at 17.5 MeV
 Author H.Akiyoshi *et al.*
 Reference Phys.Rev.C **64** (2001) 034001
 Table Total : 4 EXFOR : 4 Author : 0 Table : 0 Curve : 4 Unobt : 0

Data 2079

Title Reevaluation of secondary neutron spectra from thick targets upon heavy-ion bombardment
 Author D.Satoh *et al.*
 Reference Nucl.Instrum.Methods A **583** (2007) 507
 Table Total : 46 EXFOR : 46 Author : 46 Table : 0 Curve : 0 Unobt : 0

Data 2080

Title Isotopic dependence of the giant monopole resonance in the even-A 112-124Sn isotopes and the asymmetry term in nuclear incompressibility
 Author T.Li *et al.*
 Reference Phys.Rev.Lett. **99** (2007) 162503
 Table Total : 7 EXFOR : 7 Author : 7 Table : 0 Curve : 0 Unobt : 0

今年度入力データに使用されている研究所ごと 論文件数の内訳は以下のとおりである。

ブルックヘブン国立研究所	1 件	大阪大学核物理研究センター	10 件
高エネルギー加速器研究機構	6 件	筑波大学	2 件
東京大学原子核研究所	16 件	東北大学	9 件
日本原子力研究開発機構	4 件	産業技術総合研究所	4 件
京都大学	1 件	放射線医学総合研究所	6 件
理化学研究所	15 件	九州大学	1 件
ローレンス・バークレー国立研究所	6 件	日本原子力産業 (NIG)	1 件

2 NRDF データ量

表1は、NRDFに入力されたデータ量を各年度ごとに示したものである。また、そのあとに示された図1、2は、各年度毎の入力レコード数とデータ量、およびこれらの累積量を示す。

表 1: NRDF データ蓄積量

年度	作成計画		実績		累積	
	レコード量 (レコード数)	データ量 (MB)	レコード量 (レコード数)	データ量 (MB)	レコード量 (レコード数)	データ量 (MB)
1980	—	—	2,144	5.96	2,144	5.96
1981	1,912	5.74	1,824	6.81	3,968	12.77
1982	2,080	7.14	1,801	6.52	5,769	19.29
1983	2,200	7.00	2,252	6.53	8,021	25.82
1984	1,700	5.60	1,703	5.03	9,724	30.85
1985	1,800	5.60	2,170	5.50	11,894	36.35
1986	1,000	3.20	962	3.14	12,856	39.49
1987	1,100	3.50	1,364	3.16	14,220	42.65
1988	1,500	3.50	1,384	3.30	15,604	45.95
1989	1,500	3.20	1,224	3.20	16,828	49.15
1990	1,200	3.20	1,282	2.90	18,110	52.05
1991	1,000	3.00	789	2.20	18,899	54.25
1992	1,000	3.00	1,620	3.00	20,519	57.25
1993	1,000	3.00	1,096	3.09	21,615	60.34
1994	1,000	3.00	1,328	3.00	22,943	63.34
1995	1,000	3.00	200	3.00	23,143	66.34
1997	1,000	3.00	595	1.60	24,914	70.93
1998	1,000	3.00	196	0.53	25,110	71.46
1999	1,000	3.00	457	1.20	25,567	72.66
2000	1,000	3.00	95	0.30	25,662	72.96
2001	1,000	3.00	360	2.20	26,022	75.16
2002	1,000	3.00	717	3.22	26,739	78.38
2003	1,000	3.00	984	6.85	27,723	85.23
2004	1,000	3.00	540	2.12	28,263	87.35
2005	1,000	3.00	631	1.80	28,894	89.15
2006	1,000	3.00	453	1.83	29,347	90.98
2007	1,000	3.00	1530	8.06	30,877	99.04

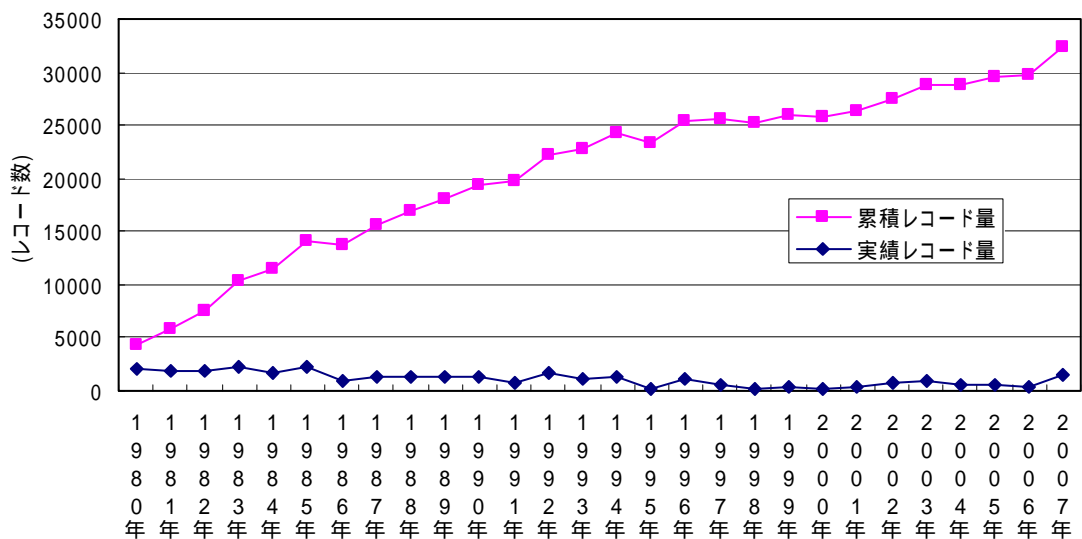


図1 NRDF各年度収録実績レコード数と累積レコード数

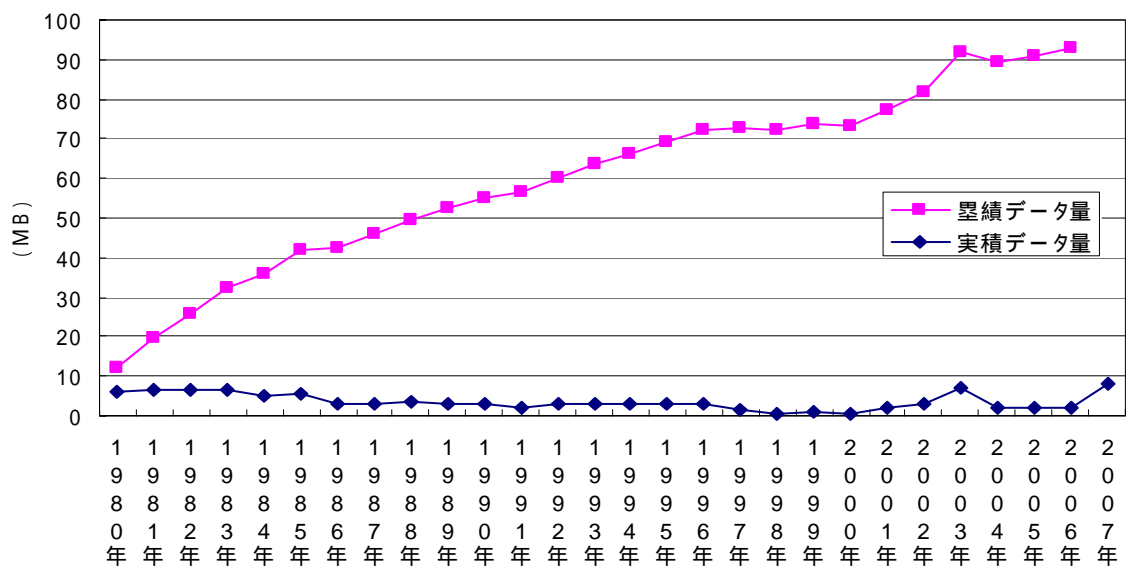


図2 NRDF各年度収録実績データ量と累積データ

3 検索可能な文献数

現在まで収集されたデータのうち、DARPE (NRDF 検索システム) により検索可能な文献総数は 1645 件である。以下の表 2・図 3 は、論文の形で発表された年毎のデータ件数の内訳を示したものである。

表 2: 検索可能論文件数

出版年	論文件数 +
1959	2
1960	7
1961	4
1962	4
1963	2
1964	0
1965	3
1966	4
1967	3
1968	5
1969	5
1970	3
1971	2
1972	3
1973	23
1974	23
1975	19
1976	25
1977	22
1978	103
1979	211
1980	136
1981	72
1982	124
1983	147
1984	97
1985	70
1986	35
1987	40
1988	40
1989	38
1990	39
1991	23
1992	36
1993	21
1994	30
1995	27
1996	24
1997	25
1998	18
1999	26
2000	32
2001	26
2002	34
2003	26
2004	41
2005	22
2006	17
2007	25

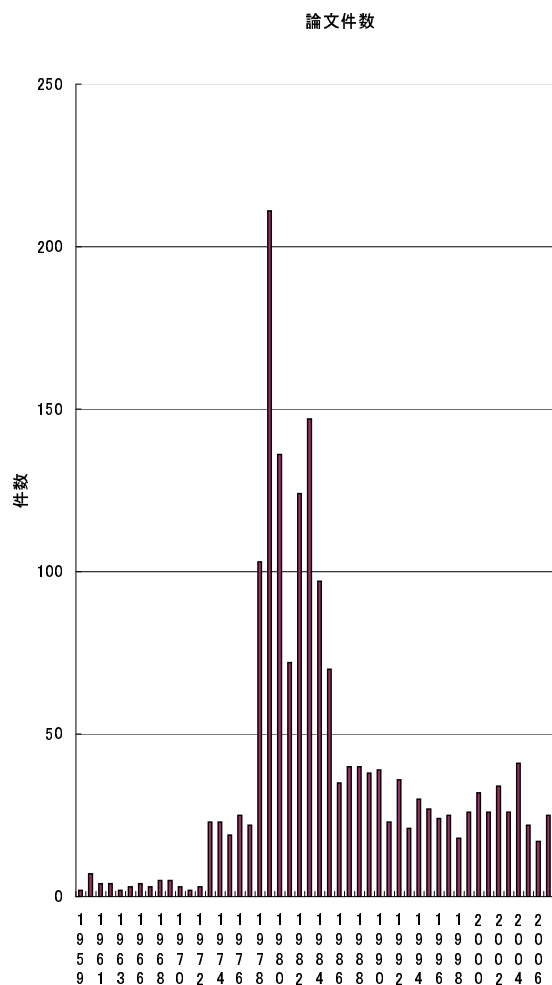


図 3: NRDF の検索可能な文献数の出版年分布