

(資料)

2003 年度入力データ *Data – entries of 2003*

北海道大学大学院理学研究科物理学専攻
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1. 今年度入力論文リスト

今年度の入力データは、以下の雑誌等から採集され、収集された論文数は、計 85 編であった。

データの収録にあたり、今年度も、多くの著者の方々の協力が得られ、より精度の高いデータを収集することができたことを記すると共に、今後とも、著者との協力体制を厳密にして、直接数値データを入力する努力を続けていきたい。

さらに、今年度は、IAEA からの収集要請のあった論文など 1990 年以前の論文の収集もとりくんだため、掲載雑誌の種類、収集論文数ともに例年よりも多くなった。

- Physical Review Letters
- Physical Review C
- Physical Review D
- Physics Letters B
- Prog.Theor.Phys
- Journal of Nuclear Science and Technology
- The European Physical Journal A
- Nuclear Instrument and Methods in Physics Research A
- Nuclear Instrument and Methods in Physics Research B
- Nuclear Instrument and Methods
- Journal of the Physical Society of Japan
- Nuclear Science and Engineering
- Applied Radiation and Isotopes
- Radiochimica Acta
- Journal of Nuclear and Radiochemical Sciences
- Zeitschrift für Physik
- Journal of Inorganic and nuclear chemistry
- Annual Report of Institute for Nuclear Study University of Tokyo
- Radioisotopes
- Bulletin of the Chemical Society of Japan

以下に今年度入力した論文リストを示す。

Data 1786

Title	Intermediate structures in $^{12}\text{C}(^{16}\text{O}, ^{12}\text{C}[2+])^{16}\text{O}$ studied with the gamma-ray recoil method
Author	H.Fujita <i>et al.</i>
Reference	Phys.Rev.C 66 (2002) 024609
Table	Total : 10 EXFOR : 10 Author : 10

Data 1787

Title Measurement of proton-induced helium production cross sections for aluminum and nickel below 16 MeV
Author Y.Takao *et al.*
Reference J.Nucl.Sci.Tech. **34** (1997) 109
Table Total : 2 EXFOR : 2 Author : 0

Data 1788

Title Measurements of neutron spectra produced from a thick lead target bombarded with 0.5- and 1.5-GeV protons
Author S.Meigo *et al.*
Reference Nucl.Instrum.Meth.A **431** (1999) 521
Table Total : 12 EXFOR : 12 Author : 12

Data 1789

Title Sigma-nucleus potential in $A = 28$
Author H.Noumi *et al.*
Reference Phys.Rev.Lett. **89** (2002) 072301
Table Total : 2 EXFOR : 1 Author : 1

Data 1790

Title Isovector quadrupole resonance observed in the $^{60}\text{Ni}(^{13}\text{C},^{13}\text{N})^{60}\text{Co}$ reaction at $E/A=100$ MeV
Author T.Ichihara *et al.*
Reference Phys.Rev.Lett. **89** (2002) 142501
Table Total : 6 EXFOR : 4 Author : 4

Data 1791

Title Study of halo structure of ^{16}C from reaction cross section measurement
Author T.Zheng *et al.*
Reference Nucl.Phys.A **709** (2002) 103
Table Total : 2 EXFOR : 2 Author : 0

Data 1792

Title Isomeric yield ratios of ^{134}I and ^{136}I in the proton-, ^{12}C - and ^{19}F -induced fission of ^{235}U , ^{237}Np and ^{238}U
Author N.Shinohara *et al.*
Reference Radiochim.Acta. **88** (2000) 1
Table Total : 18 EXFOR : 18 Author : 0

Data 1793

Title Gamow-Teller matrix elements in light nuclei and (p,n) cross sections at $E_p = 35$ MeV
Author H.Orihara *et al.*
Reference Phys.Lett.B **539** (2002) 40
Table Total : 5 EXFOR : 4 Author : 0

Data 1795

Title First measurement of the quadrupole moment in the $2+(1)$ state of ^{84}Kr
Author A.Osa *et al.*
Reference Phys.Lett.B **546** (2002) 48
Table Total : 3 EXFOR : 0 Author : 0

Data 1796

Title Compressional-mode giant resonances in deformed nuclei
Author M.Itoh *et al.*
Reference Phys.Lett.B **549** (2002) 58
Table Total : 23 EXFOR : 13 Author : 13

Data 1797

Title Isobaric analog state of ^{14}Be
Author S.Takeuchi *et al.*
Reference Phys.Lett.B **515** (2001) 255
Table Total : 6 EXFOR : 3 Author : 3

Data 1798

Title Deformation of ^{34}Mg studied via in-beam gamma-ray spectroscopy using radioactive-ion projectile fragmentaion
Author K.Yoneda *et al.*
Reference Phys.Lett.B **499** (2001) 233
Table Total : 3 EXFOR : 0 Author : 0

Data 1799

Title Measurement of the $^{24}\text{Mg}(p,t)^{22}\text{Mg}$ reaction for the states near the $^{21}\text{Na}+p$ threshold
Author S.Michimasa *et al.*
Reference Eur.Phys.J.A **14** (2002) 275
Table Total : 5 EXFOR : 5 Author : 5

Data 1800

Title Gamow-Teller transitions from ^{58}Ni to discrete states of ^{58}Cu
Author Y.Fujita *et al.*
Reference Eur.Phys.J.A **13** (2002) 411
Table Total : 1 EXFOR : 0 Author : 0

Data 1801

Title Cross section and complete set of proton spin observables in pd elastic scattering at 250 MeV
Author K.Hatanaka *et al.*
Reference Phys.Rev.C **66** (2002) 044002
Table Total : 7 EXFOR : 7 Author : 0

Data 1802

Title Determination of the Subthreshold State Contribution in $^{13}\text{C}(\alpha,n)^{16}\text{O}$,
the Main Neutron-Source Reaction for the s Process
Author S.Kubono *et al.*
Reference Phys.Rev.Lett. **90** (2003) 062501
Table Total : 7 EXFOR : 6 Author : 6

Data 1803

Title Study of resonance states in ^{12}N using a radioactive ion beam of ^{11}C .
Author T.Teranishi *et al.*
Reference Phys.Lett.B **556** (2003) 27
Table Total : 2 EXFOR : 1 Author : 1

Data 1804

Title Model-independent spin-parity determination by the $(d,2\text{He})$
reaction and possible evidence for a 0^- state in ^{12}B
Author H.Okamura *et al.*
Reference Phys.Rev.C **66** (2002) 054602
Table Total : 7 EXFOR : 7 Author : 7

Data 1805

Title Proton single-particle strength in ^{19}F measured via the $^{18}\text{O}(d,n)$ reaction
Author A.Terakawa *et al.*
Reference Phys.Rev.C **66** (2002) 064313
Table Total : 32 EXFOR : 28 Author : 28

Data 1806

Title Coulomb excitation of ^{11}Be
Author T.Nakamura *et al.*
Reference Phys.Lett.B **394** (1997) 11
Table Total : 3 EXFOR : 2 Author : 1

Data 1807

Title Polarization transfer observables for proton inelastic scattering
from ^{12}C at 0 degree
Author A.Tamii *et al.*
Reference Phys.Lett.B **459** (1999) 61
Table Total : 6 EXFOR : 6 Author : 3

Data 1808

Title Characterization of a 40-90 MeV $^7\text{Li}(p,n)$ neutron source at TIARA using
a proton recoil telescope and a TOF method
Author M.Baba *et al.*
Reference Nucl.Instrum.Meth.A **428** (1999) 454
Table Total : 1 EXFOR : 1 Author : 0

Data 1809

Title Spectral measurements of neutrons, protons, deuterons and tritons produced by 100 MeV/nucleon He bombardment
Author T.Kurosawa *et al.*
Reference Nucl.Instrum.Meth.A **430** (1999) 400
Table Total : 60 EXFOR : 60 Author : 60

Data 1810

Title Measurements of Secondary Neutrons Produced from Thick Targets Bombarded by High-Energy Helium and Carbon Ions
Author T.Kurosawa *et al.*
Reference Nucl.Sci.Eng. **132** (1999) 30
Table Total : 128 EXFOR : 128 Author : 120

Data 1811

Title Possible contribution of a highly excited collective state to proton-nucleus multistep interactions at 300 MeV
Author Y.Uozumi *et al.*
Reference Phys.Rev.C **64** (2001) 011601
Table Total : 3 EXFOR : 3 Author : 0

Data 1812

Title Beta-decay half-lives and beta-delayed neutron multiplicities of the neutron drip-line nuclei 19B, 22C, and 23N
Author K.Yoneda *et al.*
Reference Phys.Rev.C **67** (2003) 014316
Table Total : 10 EXFOR : 0 Author : 0

Data 1813

Title Fragment mass distribution of the $^{239}\text{Pu}(d, pf)$ reaction via the superdeformed beta-vibrational resonance
Author K.Nishio *et al.*
Reference Phys.Rev.C **67** (2003) 014604
Table Total : 3 EXFOR : 3 Author : 3

Data 1814

Title Search for 21B
Author A.Ozawa *et al.*
Reference Phys.Rev.C **67** (2003) 014610
Table Total : 2 EXFOR : 2 Author : 0

Data 1815

Title Experimental evidence for the existence of ^7H and for a specific structure of ^8He
Author A.A.Korshennikov *et al.*
Reference Phys.Rev.Lett. **90** (2003) 082501
Table Total : 4 EXFOR : 4 Author : 4

Data 1816

Title 100Mo(p,d)99Mo reaction at 21 MeV and direct reaction analysis of the low-lying continuum spectrum
Author S.Hirowatari *et al.*
Reference Nucl.Phys.A **714** (2003) 3
Table Total : 62 EXFOR : 60 Author : 62

Data 1817

Title Three-body dN interaction in the analysis of the $^{12}\text{C}(d,d^{\prime})$ reaction at 270 MeV
Author Y.Satou *et al.*
Reference Phys.Lett.B **549** (2002) 307
Table Total : 16 EXFOR : 15 Author : 15

Data 1818

Title Possibility of a two-proton halo in ^{17}Ne
Author R.Kanungo *et al.*
Reference Phys.Lett.B **571** (2003) 21
Table Total : 2 EXFOR : 2 Author : 1

Data 1819

Title Structure and decay of the s-hole state in ^{11}B studied via the $^{12}\text{C}(p,2p)^{11}\text{B}^*$ reaction
Author M.Yosoi *et al.*
Reference Phys.Lett.B **551** (2003) 255
Table Total : 3 EXFOR : 2 Author : 1

Data 1820

Title Isoscalar giant dipole resonance in ^{208}Pb via inelastic alpha scattering at 400 MeV and nuclear incompressibility
Author M.Uchida *et al.*
Reference Phys.Lett.B **557** (2003) 12
Table Total : 8 EXFOR : 3 Author : 0

Data 1821

Title In-beam gamma spectroscopy of ^{34}Si with deuteron inelastic scattering using reverse kinematics
Author N.Iwasa *et al.*
Reference Phys.Rev.C **67** (2003) 064315
Table Total : 3 EXFOR : 1 Author : 0

Data 1822

Title Structure of the unbound ^{11}N nucleus by the $(^3\text{He},^6\text{He})$ reaction
Author V.Guimaraes *et al.*
Reference Phys.Rev.C **67** (2003) 064601
Table Total : 18 EXFOR : 16 Author : 16

Data 1823

Title Cross section and induced polarization in ^3He elastic scattering at 443 MeV
Author J.Kamiya *et al.*
Reference Phys.Rev.C **67** (2003) 064612
Table Total : 9 EXFOR : 6 Author : 6

Data 1825

Title Isomeric 0^+ state in ^{12}Be
Author S.Shimoura *et al.*
Reference Phys.Lett.B **560** (2003) 31
Table Total : 3 EXFOR : 3 Author : 0

Data 1826

Title High-energy p-Li neutron field for activation experiment
Author Y.Uwamino *et al.*
Reference Nucl.Instrum.Meth.A **389** (1997) 463
Table Total : 3 EXFOR : 3 Author : 0

Data 1827

Title Momentum distributions of ^{14}C and ^{15}C fragments from ^{16}C breakup
Author T.Yamaguchi *et al.*
Reference Nucl.Phys.A **724** (2003) 3
Table Total : 4 EXFOR : 4 Author : 0

Data 1828

Title A new method of accurate polarization measurement on isobaric analog resonance to detect parity non-conservation effect
Author S.Kouda *et al.*
Reference Nucl.Instrum.Meth.A **420** (1999) 380
Table Total : 3 EXFOR : 2 Author : 0

Data 1829

Title Measurement and calculation of radioactivities of spallation products by high-energy heavy ions
Author H.Yashima *et al.*
Reference Radiochim.Acta. **91** (2003) 689
Table Total : 54 EXFOR : 54 Author : 54

Data 1830

Title Active target-detector with scintillating fibers for hyperon-proton scattering
Author J.K.Ahn *et al.*
Reference Nucl.Instrum.Meth.A **457** (2001) 137-150
Table Total : 1 EXFOR : 1 Author : 1

Data 1831

Title Detailed analysis of the resonant backscattering spectrum for deeply penetrating protons in carbon
Author M.Tosaki *et al.*
Reference Nucl.Instrum.Meth.B **168** (2000) 543
Table Total : 1 EXFOR : 1 Author : 0

Data 1833

Title Neutron-Production Double-Differential Cross Sections of Iron and Lead by 0.8 and 1.5 GeV Protons in the Most-Forward Direction
Author D.Satoh *et al.*
Reference J.Nucl.Sci.Tech. **40** (2003) 283
Table Total : 4 EXFOR : 4 Author : 0

Data 1834

Title M1 and Gamow-Teller transitions in T=1/2 nuclei ²³Na and ²³Mg
Author Y.Fujita *et al.*
Reference Phys.Rev.C **66** (2002) 044313
Table Total : 1 EXFOR : 0 Author : 0

Data 1835

Title Analogous Gamow-Teller and M1 transitions in ²⁶Mg, ²⁶Al, and ²⁶Si
Author Y.Fujita *et al.*
Reference Phys.Rev.C **67** (2003) 064312
Table Total : 1 EXFOR : 0 Author : 0

Data 1836

Title Excitation function measurement of ⁴⁰Ar(p,3n)³⁸K, ⁴⁰Ar(p,2pn)³⁸Cl and ⁴⁰Ar(p,2p)³⁹Cl reactions
Author K.Nagatsu *et al.*
Reference Appl.Radiat.Isot. **50** (1999) 389
Table Total : 7 EXFOR : 7 Author : 0

Data 1837

Title Most Probable Charge of Fission Products in Proton-Induced Fission of ²³⁸U and ²³²Th
Author D.Kaji *et al.*
Reference J.Nucl.Radiochem.Sci. **3** (2002) 7
Table Total : 6 EXFOR : 6 Author : 6

Data 1838

Title Measurement of the differential cross section for the reaction $\pi^+ + d \rightarrow p + p$ at momenta between 0.48 and 1.16 GeV/c
Author M.Akemoto *et al.*
Reference Phys.Lett.B **149** (1984) 321
Table Total : 11 EXFOR : 7 Author : 0

Data 1839

Title Confirmation of dip-bump structure in backward pi- - d elastic scattering
Author M.Akemoto *et al.*
Reference Phys.Rev.Lett. **50** (1983) 400
Table Total : 1 EXFOR : 1 Author : 0

Data 1840

Title Pion-Deuteron Elastic Scattering at Large Angles for Momenta from 460 to 1160 MeV/c
Author M.Akemoto *et al.*
Reference Phys.Rev.Lett. **51** (1983) 1838
Table Total : 5 EXFOR : 5 Author : 0

Data 1841

Title Shell and odd-even effects on alpha-particle energy spectra from the (p,alpha) reaction on nuclei around neutron number 50
Author I.Kumabe *et al.*
Reference Phys.Rev.C **35** (1987) 467
Table Total : 126 EXFOR : 126 Author : 126

Data 1842

Title Preequilibrium (p,p') spectra for nuclei around neutron number 50
Author Y.Watanabe *et al.*
Reference Phys.Rev.C **36** (1987) 1325
Table Total : 216 EXFOR : 216 Author : 216

Data 1843

Title Alpha-particle energy spectra from the (p,alpha) reaction on nuclei around atomic number 50
Author I.Kumabe *et al.*
Reference Phys.Rev.C **38** (1988) 2531
Table Total : 54 EXFOR : 54 Author : 54

Data 1844

Title Incident energy dependence of preequilibrium (p,p') spectra
Author Y.Watanabe *et al.*
Reference Z.Phys.A **336** (1990) 63
Table Total : 153 EXFOR : 153 Author : 57

Data 1845

Title Feshbach-Kerman-Koonin model analysis of preequilibrium (p,p') and (p,n) reactions at 12 to 26 MeV
Author Y.Watanabe *et al.*
Reference Phys.Rev.C **51** (1995) 1891
Table Total : 7 EXFOR : 7 Author : 1

Data 1846

Title The single-hole states in the $50 < N \leq 126$ shell with (p,d) reactions
Author K.Yagi *et al.*
Reference Nucl.Phys.A **121** (1968) 161
Table Total : 33 EXFOR : 33 Author : 0

Data 1847

Title Production of ^7Be from proton bombardment of light elements
Author T.Inoue *et al.*
Reference JIN **38** (1976) 1425
Table Total : 4 EXFOR : 4 Author : 0

Data 1848

Title Nuclear charge distribution in proton-induced fission of ^{238}U
Author H.Umezawa *et al.*
Reference JIN **33** (1971) 2731
Table Total : 28 EXFOR : 28 Author : 0

Data 1849

Title Some evidence for neutron pick-up from the interior core through the (p,d) reaction
Author T.Ishimatsu *et al.*
Reference Nucl.Phys.A **185** (1972) 273
Table Total : 18 EXFOR : 18 Author : 0

Data 1850

Title Highly asymmetric mass division in low-energy proton-induced fission of ^{232}Th and ^{244}Pu
Author K.Tsukada *et al.*
Reference Radiochim.Acta. **76** (1997) 173
Table Total : 30 EXFOR : 30 Author : 0

Data 1851

Title Characteristics of binary scission configurations in proton-induced fission of actinides
Author Y.L.Zhao *et al.*
Reference J.Radioanal.Nucl.Chem **239** (1999) 113
Table Total : 7 EXFOR : 7 Author : 7

Data 1852

Title Mass yield distributions in proton-induced fission of ^{248}Cm
Author Z.Qin *et al.*
Reference Radiochim.Acta. **84** (1999) 115
Table Total : 40 EXFOR : 40 Author : 0

Data 1853

Title Mass separation of neutron-rich isotopes using a gas-jet coupled thermal ion source
Author S.Ichikawa *et al.*
Reference Nucl.Instrum.Meth.A **374** (1996) 330
Table Total : 11 EXFOR : 11 Author : 0

Data 1854

Title Production cross sections of Tritium in high energy nuclear reactions with 12 GeV protons
Author M.Noguchi *et al.*
Reference Appl.Radiat.Isot. **42** (1991) 577
Table Total : 9 EXFOR : 9 Author : 0

Data 1855

Title Isomeric yield ratios of fission products in the system of 24 MeV
proton-induced fission of ²³⁸U
Author M.Tanikawa *et al.*
Reference Z.Phys.A **347** (1993) 53
Table Total : 30 EXFOR : 30 Author : 0

Data 1856

Title Measurement of differential thick-target neutron yields of
C, Al, Ta, W(p,xn) reactions for 50-MeV protons
Author T.Aoki *et al.*
Reference Nucl.Sci.Eng. **146** (2004) 200
Table Total : 24 EXFOR : 24 Author : 24

Data 1857

Title Strength observed in Gamow-Teller resonance plus continuum
in the ²⁷Al(p,n) reaction at 295 MeV
Author T.Wakasa *et al.*
Reference Phys.Lett.B **426** (1998) 257
Table Total : 5 EXFOR : 5 Author : 5

Data 1858

Title Measurement of neutrons from thick Fe target bombarded by 210 MeV protons
Author S.Yonai *et al.*
Reference Nucl.Instrum.Meth.A **515** (2003) 733
Table Total : 9 EXFOR : 9 Author : 9

Data 1859

Title The angular distributions of the long-range alpha particles from the reaction ¹⁹F(p, α^0)¹⁶O
Author A.Isoya *et al.*
Reference NP **7** (1958) 116
Table Total : 16 EXFOR : 15 Author : 0

Data 1860

Title The ¹²⁷Al(p,p)¹²⁷Al Reaction
Author T.Awaya *et al.*
Reference J.Phys.Soc.Jpn **20** (1965) 669
Table Total : 6 EXFOR : 6 Author : 0

Data 1861

Title Analysis of hydrogen in corrosion product films on amorphous alloy using the elastic recoil detection technique
Author S.Yamaguchi *et al.*
Reference NIM **218** (1983) 598
Table Total : 3 EXFOR : 3 Author : 0

Data 1862

Title Depth resolution and recoil cross section for analyzing hydrogen in solids using elastic recoil detection with 4He beam
Author S.Nagata *et al.*
Reference Nucl.Instrum.Meth.B **6** (1985) 533
Table Total : 7 EXFOR : 7 Author : 7

Data 1863

Title Depth profiling of lithium by use of the nuclear reaction ${}^7\text{Li}(p,\alpha){}^4\text{He}$
Author A.Sagara *et al.*
Reference Nucl.Instrum.Meth.B **34** (1988) 465
Table Total : 1 EXFOR : 1 Author : 1

Data 1864

Title Production of cosmic-ray induced radionuclides, ${}^{49}\text{V}$ and ${}^{59,63}\text{Ni}$ from Fe, Co and Ni irradiated with protons up to $E_p=40$ MeV
Author M.Furukawa *et al.*
Reference A-INS- **1989** (1990) 32
Table Total : 4 EXFOR : 4 Author : 0

Data 1865

Title Production of ${}^{59,63}\text{Ni}$ from natural Ni irradiated with protons up to $E_p=40$ MeV and decay of ${}^{56}\text{Ni}$
Author M.Furukawa *et al.*
Reference A-INS- **1990** (1991) 35
Table Total : 4 EXFOR : 4 Author : 0

Data 1866

Title Isotope separator on-line at INS FM cyclotron
Author Y.Yoshizawa *et al.*
Reference NIM **134** (1976) 93
Table Total : 3 EXFOR : 3 Author : 0

Data 1867

Title Excitation functions for (p,xn) and (p,pxn) reactions on natural ${}^{79+81}\text{Br}$, ${}^{85+87}\text{Rb}$, ${}^{127}\text{I}$ and ${}^{133}\text{Cs}$ upto $E_p=52$ MeV
Author K.Sakamoto *et al.*
Reference Appl.Radiat.Isot. **36** (1985) 481
Table Total : 22 EXFOR : 22 Author : 0

Data 1868

Title Production of pure ^{123}I by the $^{127}\text{I}(p,5n)^{123}\text{Xe} \rightarrow ^{123}\text{I}$ reaction
Author K.Suzuki *et al.*
Reference RI **35** (1986) 235
Table Total : 3 EXFOR : 3 Author : 3

Data 1869

Title The $^{14}\text{N}(d,n)^{15}\text{O}$ reaction in the energy range from 1.5- to 2.9-MeV
Author S.Morita *et al.*
Reference J.Phys.Soc.Jpn **15** (1960) 2170
Table Total : 8 EXFOR : 8 Author : 0

Data 1870

Title On the neutrons from the $^{14}\text{N}(d,n)^{15}\text{O}$ reaction - II
Author I.Nonaka *et al.*
Reference J.Phys.Soc.Jpn **12** (1957) 841
Table Total : 3 EXFOR : 3 Author : 0

Data 1871

Title Yield of ^{18}F for various reactions from oxygen and neon
Author T.Nozaki *et al.*
Reference Appl.Radiat.Isot. **25** (1974) 393
Table Total : 4 EXFOR : 4 Author : 0

Data 1872

Title (d,alpha) reactions on ^{19}F , ^{20}Ne , ^{31}P and ^{32}S at 14.7 MeV
Author K.Takamatsu *et al.*
Reference J.Phys.Soc.Jpn **17** (1962) 896
Table Total : 21 EXFOR : 21 Author : 0

Data 1873

Title $^{27}\text{Al}(d,\alpha)^{25}\text{Mg}$ Reaction at 14.7 MeV
Author T.Yanabu *et al.*
Reference J.Phys.Soc.Jpn **17** (1962) 914
Table Total : 9 EXFOR : 9 Author : 0

Data 1874

Title Excitation functions for the reactions induced by alpha particles on ^{107}Ag
Author S.Fukushima *et al.*
Reference NP **41** (1963) 275
Table Total : 10 EXFOR : 10 Author : 0

Data 1875

Title The production of high specific activities of tin
Author S.Fukushima *et al.*
Reference BCJ **36** (1963) 1225
Table Total : 5 EXFOR : 5 Author : 0

今年度入力データに使用された加速器の設置されている研究所ごとの論文件数の内訳は、以下のとおりである。

大阪大学核物理研究センター	14件	九州大学	5件
京都大学	3件	高エネルギー加速器研究機構	8件
筑波大学	1件	東大原子核研究所	13件
東京大学原子核科学研究センター	2件	東北大学	7件
名古屋大学	1件	日本原子力研究所	11件
放射線医学総合研究所	5件	理化学研究所	17件

II. 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、そのあとの図1, 2に示された2つのグラフは各年度毎の入力データ量とレコード数、およびこれらの累積量をグラフに示す。

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
1996	1,000	3.00	1,176	2.99	24,319	69.33
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

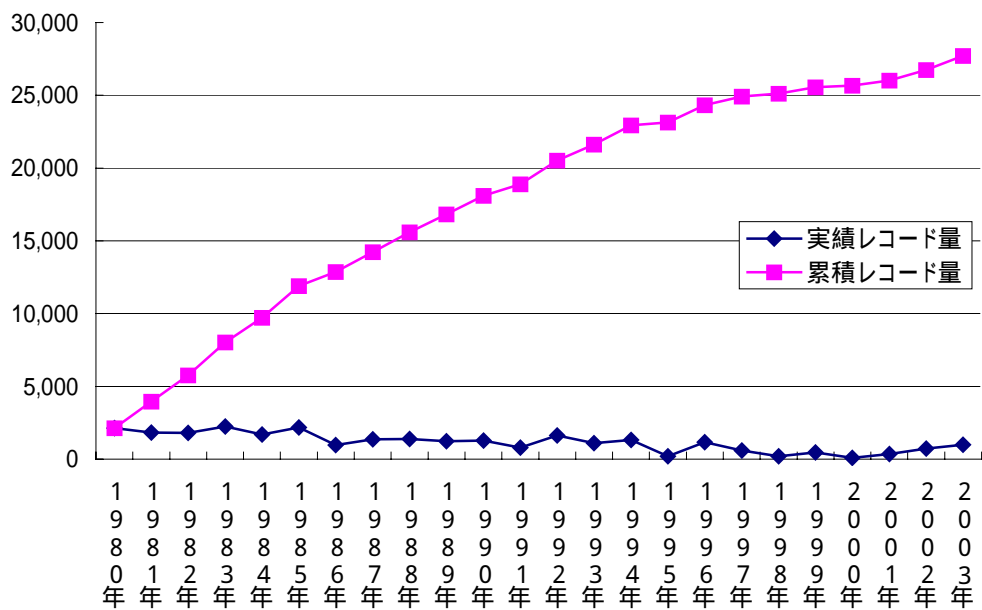


図1 NRDF各年度収録実績レコード数と累積レコード数

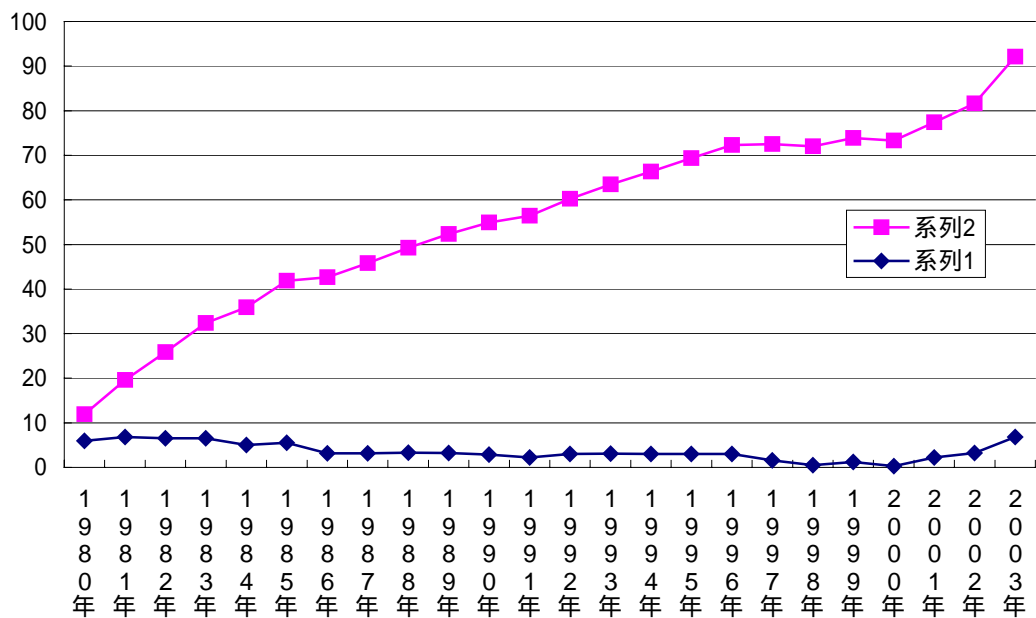


図2 NRDF各年度収録実績データ量と累積データ

検索可能な文献数

現在まで収集されたデータのうち検索可能な文献総数(Darpe(NRDF検索システム)による)は、1556件であるが、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

年度	論文件数
1960	1
1962	2
1963	2
1965	1
1968	4
1969	4
1970	3
1971	1
1972	3
1973	23
1974	22
1975	19
1976	23
1977	21
1978	101
1979	211
1980	130
1981	72
1982	125
1983	145
1984	93
1985	70
1986	35
1987	35
1988	40
1989	37
1990	37
1991	21
1992	35
1993	21
1994	30
1995	21
1996	21
1997	27
1998	14
1999	21
2000	27
2001	20
2002	28
2003	19
2004	1

図 3

