

(資料)

1996年度入力データ

Data – entries of 1996

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I. 今年度入力論文リスト

今年度の入力データは、以下のものから採集され、収集された論文数は、計52編であった。

Nucl.Phys.A, Phys.Lett.B, Phys.Rev.C, Phys.Rev.Lett., Z.Phys.A, J.Phys.Soc.Jpn

以下に今年度入力した論文リストを示す。

Data number : 1551

[Title] Symmetric mass-division process in nuclei with mass numbers around $A_{cm} = 100$

[FirstAuthor] Y.Nagame

[Journal] *Phys. Rev. C* **47** (1993), 1586

Data number:1554

[Title] Experimental study of $^8\text{He}+p$ elastic and inelastic scattering

[FirstAuthor] A.A.Korshennikov

[Journal] *Phys. Lett. B* **316** (1993), 38

Data number: 1556

[Title] $^{40}\text{Ca}(p,d)^{39}\text{Ca}$ reaction at 65 MeV

[FirstAuthor] M.Matoba

[Journal] *Phys. Rev. C* **48** (1993), 95

Data number: 1565

[Title] Low energy octupole resonance in ^{46}Ti studied by inelastic proton scattering at 65MeV

[FirstAuthor] M.Fujiwara

[Journal] *Phys. Rev. C* **35** (1987), 1257

Data number: 1568

[Title] Fragmentation of neutron-hole strengths in ^{59}Ni observed in the $^{60}\text{Ni}(p,d)^{59}\text{Ni}$ reaction at 65MeV

[FirstAuthor] M.Matoba

[Journal] *Nucl. Phys. A* **581** (1995), 21

Data number: 1571

[Title] Systematic behavior of fectile spin polarization in the profection fragmentation reaction

[FirstAuthor] H.Okuno

[Journal] *Phys. Lett. B* **335** (1994), 29

Data number: 1575

[*Title*] Cluster structure in ^{40}Ca via the α -transfer reaction

[*FirstAuthor*] T.Yamaya

[*Journal*] *Nucl. Phys.* **A573** (1994), 154

Data number: 1581

[*Title*] Proton scattering off ^9Be and the final-state interaction in the (e,e'p) and (γ ,p) reactions on ^{10}B

[*FirstAuthor*] L.J.de Bever

[*Journal*] *Nucl. Phys.* **A579** (1994), 13

Data number: 1582

[*Title*] Energy dependence of the $^6\text{Li}(\alpha,2\alpha)\text{pn}$ reaction from 77 to 119 MeV

[*FirstAuthor*] R.E.Warner

[*Journal*] *Phys. Rev.* **C46** (1992), 616

Data number: 1586

[*Title*] Single-particle states in ^{59}Ni with $^{58}\text{Ni}(\vec{d},\text{p})^{59}\text{Ni}$ reaction at 56MeV and neutron-bound-state complex potentials

[*FirstAuthor*] O.Iwamoto

[*Journal*] *Nucl. Phys.* **A576** (1994), 387

Data number: 1587

[*Title*] CDCC analysis of 22 mev neutron elastic scattering and (d,p) reactions on ^{52}Cr and ^{206}Pb

[*FirstAuthor*] M.Masaki

[*Journal*] *Nucl. Phys.* **A573** (1994), 1

Data number: 1590

[*Title*] Tensor analyzing power of the (d, ^2He) reaction at 270MeV

[*FirstAuthor*] H.Okamura

[*Journal*] *Phys. Lett.* **B345** (1995), 1

Data number: 1592

[*Title*] Energy levels of ^{40}Ca studied by the $^{39}\text{K}(\text{p},\alpha_0)^{36}\text{Ar}$ reaction

[*FirstAuthor*] T.Nakashima

[*Journal*] *J.Phys.Soc.Jpn* **10** (1974), 36

Data number: 1594

[*Title*] Elastic scattering of ^3He particles at 450 MeV

[*FirstAuthor*] T.Yamagata

[*Journal*] *Nucl. Phys.* **A589** (1995), 425

Data number: 1596

[*Title*] Hypernuclear weak decay of $^{\Lambda}_{\Lambda}^{12}\text{C}$ and $^{\Lambda}_{\Lambda}^{11}\text{B}$

[*FirstAuthor*] H.Noumi

[*Journal*] *Phys. Rev.* **C52** (1995), 2936

Data number: 1597

[*Title*] α -cluster states above the threshold energy in ^{44}Ti

[*FirstAuthor*] T.Yamaya

[*Journal*] *Phys. Rev.* **C53** (1996), 131

Data number: 1600

[*Title*] The competition between fusion-fission and deeply inelastic reactions in the medium mass systems

[*FirstAuthor*] Y.H.Pu

[*Journal*] *Z.Phys.* **A353** (1996), 387

Data number: 1610

[*Title*] Λ hyperon production at backward angles in the reaction $\pi^- \text{}^6\text{Li} \rightarrow \Lambda \text{}^x$ at 4GeV/c

[*FirstAuthor*] K.Tomizawa

[*Journal*] *Phys. Lett.* **B328** (1994), 264

Data number: 1615

[*Title*] Ground-state transition strengths of the (p,t) reactions for nuclei with A=23-238

[*FirstAuthor*] K.Miura

[*Journal*] *Nucl. Phys.* **A436** (1985), 221

Data number: 1622

[*Title*] Anomalous electron intensity ratio of the E0 internal conversion in the transitions of ^{154}Gd

[*FirstAuthor*] M.Sakai

[*Journal*] *Nucl. Phys.* **A473** (1987), 317

Data number: 1623

[*Title*] Nuclear magnetic resonance on oriented $^{99m,101m,102}\text{Rh}$ and ^{101}Pd

[*FirstAuthor*] K.Nishimura

[*Journal*] *Nucl. Phys.* **A451** (1986), 233

Data number: 1624

[*Title*] The states of ^{73}Se populated by the beta decay of ^{73}Br

[*FirstAuthor*] K.Heiguchi

[*Journal*] *Nucl. Phys.* **A474** (1987), 484

Data number: 1625

[*Title*] A detailed study of the $^{12}\text{C}+^{16}\text{O}$ fusion reaction at $E_{cm}=19$ to 24MeV

[*FirstAuthor*] T.Sugimitsu

[*Journal*] *Nucl. Phys.* **A464** (1987), 415

Data number: 1626

[*Title*] Binary decay fragment cross sections and pre-scission charge multiplicity in $^{84}\text{Kr}+^{27}\text{Al}$ at 10.6MeV/nucleon

[*FirstAuthor*] K.Yuasa-Nakagawa

[*Journal*] *Phys. Rev.* **C53** (1996), 997

Data number: 1627

[*Title*] Measurement of the vector and tensor analyzing powers for the d-p elastic scattering at $E_d=270\text{MeV}$

[*FirstAuthor*] N.Sakamoto

[*Journal*] *Phys. Lett.* **B367** (1996), 60

Data number: 1628

[*Title*] Levels in ^{17}C above the ^{16}C neutron threshold

[*FirstAuthor*] G.Raimann

[*Journal*] *Phys. Rev.* **C53** (1996), 453

Data number: 1629

[*Title*] Alpha decay properties of light einsteinium isotopes

[*FirstAuthor*] Y.Hatsukawa

[*Journal*] *Nucl. Phys.* **A500** (1989), 90

Data number: 1631

[*Title*] Isomeric transitions of ^{211m}Po and ^{212m}Po and E4 effective charge

[*FirstAuthor*] H.Kudo

[*Journal*] *Nucl. Phys.* **A494** (1989), 203

Data number: 1632

[*Title*] Search for proton-proton dibaryon resonances in the $dp \rightarrow (pp)n$ reaction

[*FirstAuthor*] H.Kawai

[*Journal*] *Nucl. Phys.* **A481** (1988), 806

Data number: 1633

[*Title*] ft asymmetry in A=12 mirror decay to the ^{12}C 4.4MeV state

[*FirstAuthor*] Y.Nagai

[*Journal*] *Nucl. Phys.* **A485** (1988), 210

Data number: 1634

[*Title*] Study of the $np \rightarrow pp\pi^-$ reaction in the incident neutron momentum range 1.0-1.9 GeV/c

[*FirstAuthor*] T.Tsuboyama

[*Journal*] *Nucl. Phys.* **A486** (1988), 669

Data number: 1635

[*Title*] Quadrupole moment of the doubly-closed-shell-plus one-nucleon nucleus ^{41}Sc and its core deformation

[*FirstAuthor*] T.Minamisono

[*Journal*] *Nucl. Phys.* **A559** (1993), 239

Data number: 1636

[*Title*] Energy dependence of the analyzing power for the $pp \rightarrow \pi^+ d$ reaction in the energy region 500-800MeV

[*FirstAuthor*] H.Y.Yoshida

[*Journal*] *Nucl. Phys.* **A541** (1992), 443

Data number: 1637

[*Title*] The $^9\text{Be}(d,n)^{10}\text{B}$ reaction at 25MeV

[*FirstAuthor*] K.Miura

[*Journal*] *Nucl. Phys.* **A539** (1992), 441

Data number: 1638

[*Title*] Level structure of ^{21}Mg and the $^{20}\text{Na}(p,\gamma)^{21}\text{Mg}$ stellar reaction rate

[*FirstAuthor*] S.Kubono

[*Journal*] *Nucl. Phys.* **A537** (1992), 153

Data number: 1639

[*Title*] Core polarization in the 203KeV $p_{1/2}$ -wave neutron resonance capture by ^{32}S

[*FirstAuthor*] H.Kitazawa

[*Journal*] *Nucl. Phys.* **A536** (1992), 109

Data number: 1640

[Title] Anomaly in the $^{15}\text{N}, ^{16}\text{O}, ^{19}\text{F} + ^{54,56}\text{Fe}$ fusion cross section around the Coulomb barrier energy

[FirstAuthor] H.Funaki

[Journal] *Nucl. Phys. A* **556** (1993), 307

Data number: 1641

[Title] The (π^+, k^+) reaction on ^{12}C and ^{56}Fe

[FirstAuthor] M.Akei

[Journal] *Nucl. Phys. A* **534** (1991), 478

Data number: 1642

[Title] Strong mutual excitation of $^{148}\text{Nd} + ^{20}\text{Ne}$

[FirstAuthor] Cheng-Lie Jiang

[Journal] *Phys. Lett. B* **259** (1991), 427

Data number: 1643

[Title] Evidence for isovector giant resonances at $2\hbar\omega$ via the $(^7\text{Li}, ^7\text{Be})$ reactions on ^{12}C and ^{28}Si

[FirstAuthor] S.Nakayama

[Journal] *Phys. Rev. C* **46** (1992), 1667

Data number: 1644

[Title] Measurement of the $^8\text{Li}(\alpha, n)^{11}\text{B}$ reaction cross section at energies of astrophysical interest

[FirstAuthor] R.N.Boyd

[Journal] *Phys.Rev.Lett.* **68** (1992), 1283

Data number: 1645

[Title] Analysis of deuteron spectra from hadron-nucleus reactions at several GeV/c with the coalescence model

[FirstAuthor] T.Tokushuku

[Journal] *Phys. Lett. B* **235** (1990), 245

Data number: 1646

[Title] Neutron emission for the fusion of $^{40}\text{Ar} + \text{Ni}$, ^{92}Mo , ^{122}Sn reactions at $E/A=26\text{MeV}$

[FirstAuthor] K.Yoshida

[Journal] *Phys. Rev. C* **46** (1992), 961

Data number: 1647

[Title] Measurements of ^{10}Be and ^{26}Al production cross sections with 12GeV protons by accelerator mass spectrometry

[FirstAuthor] S.Shibata

[Journal] *Phys. Rev. C* **48** (1993), 2617

Data number: 1648

[Title] Charged particle multiplicities in heavy-ion-induced fission

[FirstAuthor] H.Ikezoe

[Journal] *Phys. Rev. C* **46** (1992), 1922

Data number: 1649

[Title] Study of a broad bump in reaction particle spectrum observed for one-neutron pickup reactions

[FirstAuthor] T.Ishimatsu

[Journal] *J.Phys.Soc.Jpn* **60** (1991), 1553

Data number: 1650

[Title] Spectroscopic study of oxygen and fluorine isotopes with the ($\alpha, ^3\text{He}$) and (α, t) reaction on $^{16,17,18}\text{O}$

[First Author] M.Yasue

[Journal] Phys. Rev. C46 (1992), 1242

Data number: 1651

[Title] In-plane polarization transfer in the $^6\text{Li}(p,p')$ reaction and the effective NN interaction

[First Author] Y.Nakai

[Journal] Phys. Rev. C45 (1992), 451

Data number: 1652

[Title] The β decay of the new isotope ^{79}Y

[First Author] J.Mukai

[Journal] Z.Phys. A342 (1992), 393

Data number: 1653

[Title] π^- - ^{12}C elastic scattering above the Δ resonance

[First Author] T.Takahashi

[Journal] Phys. Rev. C51 (1995), 2542

Data number: 1654

[Title] Cluster structures in ^{10}Be from the $^7\text{Li}(\alpha, p)^{10}\text{Be}$ reaction

[First Author] S.Hamada

[Journal] Phys. Rev. C49 (1994), 3192

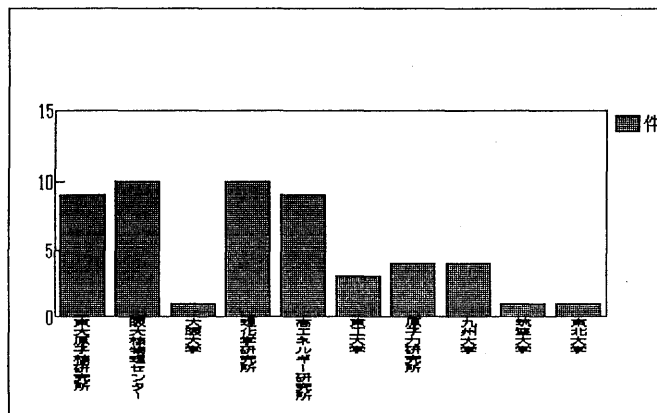
Data number: 1655

[Title] New aspect of intermediate energy heavy ion reactions. Large spin polarization of fragments

[First Author] K.Asahi

[Journal] Phys. Lett. B251 (1990), 488

・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毎の論文件数の内訳は以下のとおりである。



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棒グラフに示す。

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

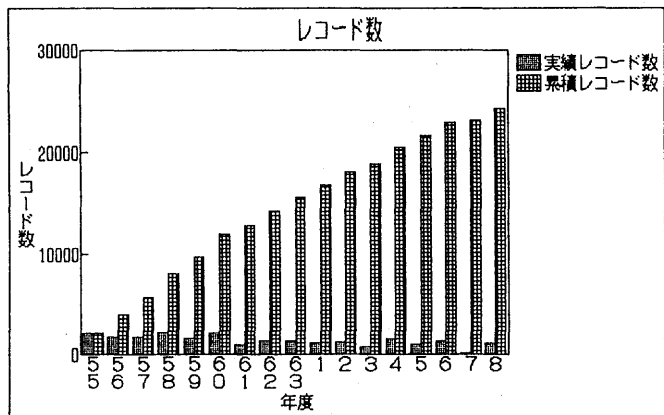


図1. NRDF 各年度収録実績レコード数と累積レコード数

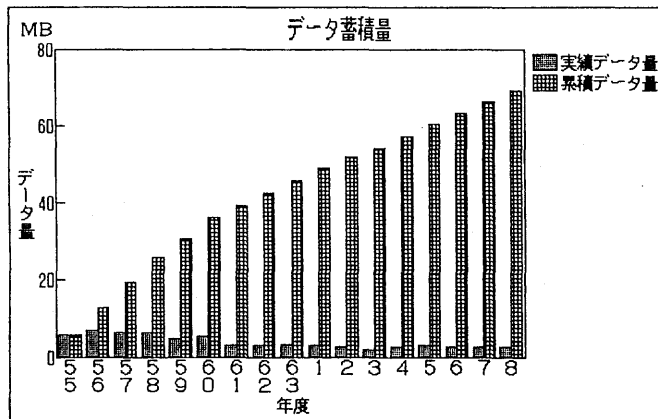


図2. NRDF 各年度収録実績データ量と累積データ量

III. 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は1094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	論文数
1968	3
1969	4
1970	3
1971	0
1972	2
1973	21
1974	18
1975	19
1976	19
1977	18
1978	91
1979	151
1980	59
1981	40
1982	90
1983	110
1984	87
1985	68
1986	38
1987	30
1988	45
1989	18
1990	34
1991	17
1992	37
1993	20
1994	27
1995	17
1996	8

図3

