

(資料)

1993年度入力データ

Data-entries of 1993

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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、収録された論文数は計55編であった；

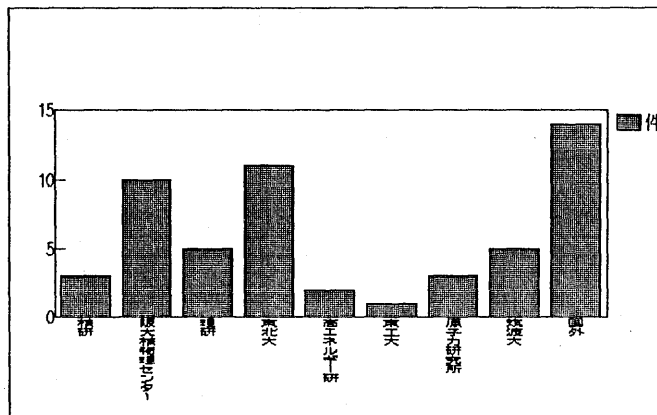
① アニュアルレポート,

- ・ 東大核研 (INS)
- ・ 阪大核物理センター (RCNP)
- ・ 筑波大 (UTTAC)
- ・ 東北大 (CYRIC)
- ・ 原子力研究所 (JAERI TANDEM, LINAC & V.D.G.)
- ・ 理化学研究所 (RIKEN ACCELERATOR PROGRESS REPORT)

② 著者からの別刷り,

③ その他.

・ 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。



・以下に今年度入力した論文のリストを示す。リストの項目は次のとおりである。

DATA n n はDATA番号。
[TITLE] 論文のタイトル。
[AUTH] 著者名（著者の方が多数のため2行以上にわたる時は最初の著者の名前を載せた。）
[雑誌名] 論文が掲載されている雑誌名。
および雑誌の巻数、（年）、頁。

DATA1440

[TITLE] Observation of $1+$ state in 48Ca by hadron inelastic scattering

[AUTH] Y. Fujita,

[雑誌名] PR/C

25 (1981) P678

DATA1441

[TITLE] $M1$ states in 58Ni observed by proton inelastic scattering at 65MeV

[AUTH] M. Fujiwara

[雑誌名] NP/A

410 (1983) P137

DATA1442

[TITLE] Hexadecapole strength in the region of the low-energy octupole resonance

[AUTH] Y. Fujita

[雑誌名] PR/C

40 (1989) P1595

DATA1443

[TITLE] EXCITATION OF $\Delta L=1$ RESONANCES IN THE (p,n) REACTION ON ^{90}Zr , ^{120}Sn , ^{140}Ce AND ^{208}Pb AT $E_p=41\text{MEV}$

[AUTH] S. NISHIHARA

[雑誌名] PL/B

160 (1985) P369

DATA1444

[TITLE] INCOMPLETE FUSION OF THE $^{160}+^{27}\text{Al}$ REACTION

[AUTH] H. IKEZOE

[雑誌名] NP/A

444 (1985) P349

DATA1445

[TITLE] Low-lying intrinsic states in ^{173}Ta

[AUTH] I. Kurniawan

[雑誌名] NP/A

534 (1991) P367

DATA1446

[TITLE] Nuclear structure of ^{48}Ca

[AUTH] Y. Fujita

[雑誌名] PR/C

37 (1988) P45

DATA1447

[TITLE] THE (γ, p) AND (γ, α) CROSS SECTIONS FOR $^{63,65}\text{Cu}$ IN THE GIANT DIPOLE RESONANCE REGION

[AUTH] T. TANAKA

[雑誌名] NP/A

559 (1993) P317

DATA1448

[TITLE] ISOBARIC ANALOGUE RESONANCES IN PHOTOPROTON REACTIONS

[AUTH] K. SHODA

[雑誌名] PR/B

28 (1968) P30

DATA1449

[TITLE] ELECTROEXCITATION OF THE 10.8-MEV ($1^-; T=0$) LEVEL OF ^{12}C AND THE 7.12-MEV ($1^-; T=0$) LEVEL OF ^{16}O

[AUTH] Y. TORIZUKA

[雑誌名] PRL
22 (1969) P544

DATA1450

[TITLE] STUDY OF NUCLEAR STATES IN ^{60}Ni BY INELASTIC ELECTRON SCATTERING

[AUTH] Y. TORIZUKA

[雑誌名] PR
185 (1969)

DATA1451

[TITLE] EXCITATION OF THE GIANT RESONANCE IN ^{12}C BY INELASTIC ELECTRON SCATTERING

[AUTH] Y. TORIZUKA

[雑誌名] PRL
25 (1970) P874

DATA1452

[TITLE] STUDY OF NUCLEAR STATES IN ^{40}Ca BY INELASTIC ELECTRON SCATTERING

[AUTH] K. ITOH

[雑誌名] PR/C
2 (1970) P2181

DATA1453

[TITLE] GROUND STATE TRANSITION STRENGTHS

[AUTH] H. ORIHARA

[雑誌名] JPSJ
49 (1980) P1

DATA1454

[TITLE] ISOVECTOR $0^+ \rightarrow 0^-$ TRANSITION OBSERVED IN THE REACTION $^{16}\text{O}(p,n)^{16}\text{F}$

[AUTH] H. ORIHARA

[雑誌名] PRL
49 (1982) P1318

DATA1455

[TITLE] TENSOR ANALYZING POWERS FOR DEUTERON BREAKUP REACTION IN $d+\alpha$ SYSTEM

[AUTH] M. ISHIKAWA

[雑誌名] JPSJ

51

(1982)

P1327

DATA1456

[TITLE] EXCITATION OF THE 6.41 MEV, $T=14$ -STATE IN ^{16}F BY THE $^{160}(\text{p},\text{n})^{16}\text{F}$ REACTION

[AUTH] H. OHNUMA

[雑誌名] PL/B

112

(1982)

P206

DATA1457

[TITLE] RESONANT STRUCTURES IN THE EXCITATION FUNCTIONS OF THE $^{20}\text{Ne}(^{160},^{12}\text{C})^{24}\text{Mg}$ REACTION

[AUTH] J. SCHIMIZU

[雑誌名] PL/B

112

(1982)

P323

DATA1458

[TITLE] DIRECT EXTRACTION OF THE ISOVECTOR DEFORMATION PARAMETER β_2 FROM THE (P, N) REACTION OF ^{56}Fe

[AUTH] H. ORIHARA

[雑誌名] PL/B

106

(1981)

P171

DATA1459

[TITLE] SPECTROSCOPY WITH THE SINGLET-DEUTERON REACTION $^{12}\text{C}(\alpha, \text{DS}-0)^{14}\text{N}$ AT 50MEV

[AUTH] A. SAKAGUCHI

[雑誌名] PRL

56

(1986)

P1112

DATA1460

[TITLE] COINCIDENCE MEASUREMENTS OF (P, N) REACTION AT 1.5GEV/C ON C AND H IN THE Δ EXCITATION REGION

[AUTH] J. CHIBA

[雑誌名] PRL

67

(1991)

P1982

DATA1461

[TITLE] KEY RESONANT STATES IN THE $(Li(\alpha, N)11B)$ REACTION IN THE INHOMOGENEOUS BIG BANG MODELS

[AUTH] S. KUBONO

[雑誌名] ZP/A

338

(1991)

P459

DATA1462

[TITLE] POLARIZATION TRANSFER IN THE DEUTERON BREAK-UP REACTION AT 56MEV

[AUTH] H. SAKAMOTO

[雑誌名] PL/B

155

(1985)

P227

DATA1463

[TITLE] COMPARISON OF P + A AND Si + Au COLLISIONS AT 14.6 GEV/C

[AUTH] T. ABBOTT

[雑誌名] PRL

66

(1991)

P1567

DATA1464

[TITLE] ANALYZING OAW MEASUREMENTS OF $(D, 2He)$ REACTIONS ON LIGHT NUCLEI

[AUTH] T. MOTOBAYASHI

[雑誌名] PR/C

34

(1986)

P2365

DATA1465

[TITLE] GAMMA-RAY MULTIPLICITY DISTRIBUTION ASSOCIATED WITH MASSIVE TRANSFER

[AUTH] T. INAMURA

[雑誌名] PR/C

32

(1985)

P1539

DATA1466

[TITLE] ASYMMETRY OF SPIN-FLIP OF POLARIZED PROTONS IN THE INELASTIC SCATTERING TO THE FIRST $2+$ STATES OF $48Ti$ AND $50Ti$

[AUTH] M. TOMIZAWA

[雑誌名] PR/C

41

(1990)

P1486

DATA1467

[TITLE] NEGATIVE PION PRODUCTION IN SUBTHRESHOLD HEAVY ION COLLISIONS

[AUTH] T. SUZUKI

[雑誌名] PL/B

257

(1991)

P27

DATA1468

[TITLE] NEUTRON HALO IN ^{11}Be STUDIED VIA REACTION CROSS SECTIONS

[AUTH] M. FUKUDA

[雑誌名] PL/B

268

(1991)

P339

DATA1469

[TITLE] THE $^1\text{H}(d, 2p)^0\text{N}$ REACTIONS AS BASIS FOR A DEUTERON TENSOR POLARIMETER AT INTERMEDIATE ENERGIES

[AUTH] S. KOX

[雑誌名] PL/B

266

(1991)

P264

DATA1470

[TITLE] POSSIBLE SHAPE-CHANGE OBSERVED AT HIGH SPIN IN ^{123}Cs

[AUTH] V. BARCI

[雑誌名] ZP/A

321

(1985)

P353

DATA1471

[TITLE] NEUTRON SPECTRA AND LEVEL DENSITY PARAMETERS FROM THE $^{16}\text{O} + ^{12}\text{C}$ FUSION REACTION

[AUTH] J. KASAGI

[雑誌名] PR/C

31

(1985)

P858

DATA1472

[TITLE] SPIN POLARIZATION OF RESIDUAL NUCLEI IN $(^{14}\text{N}, \alpha)$ REACTIONS AT 115MEV

[AUTH] K. IEKI

[雑誌名] PL/B

150

(1985)

P83

DATA1473

[TITLE] SPECTROSCOPY OF NEUTRON HALO NUCLEUS ^{11}Be VIA THE $^{11}\text{B}(d, 2\text{He})$ REACTION AT 70 MEV

[AUTH] H. SAKAI

[雑誌名] PL/B
302 (1993) P7

DATA1474

[TITLE] ALPHA-CLUSTER BANDS IN ^{40}Ca OBSERVED VIA THE $(^6\text{Li}, d)$ REACTION

[AUTH] T. YAMAYA

[雑誌名] PL/B
306 (1993) P1

DATA1475

[TITLE] $(d, 2\text{He})$ REACTIONS AT $E_d=260\text{MEV}$ AS A POSSIBLE PROBE TO NUCLEAR SPIN-ISOSPIN EXCITATION

[AUTH] H. OHNUMA

[雑誌名] PR/C
47 (1993) P648

DATA1476

[TITLE] ELASTIC SCATTERING OF $^{58}\text{Ni}+^{64}\text{Ni}$ NEAR THE COULOMB BARRIER

[AUTH] A. M. STEFANINI

[雑誌名] PL/B
240 (1990) P306

DATA1477

[TITLE] CROSS SECTION OF THE $^{12}\text{C}(^3\text{He}, p)^{14}\text{N}$ REACTION

[AUTH] K. MATSUDA

[雑誌名] JPSJ
25 (1968) P1207

DATA1478

[TITLE] MULTIPLE COULOMB EXCITATION OF ^{167}Er

[AUTH] M. OHSHIMA

[雑誌名] NP/A
436 (1985) P518

DATA1479

[TITLE] GAMOW-TELLER STRENGTH IN β -DECAY OF ^{25}Si

[AUTH] S. HATORI

[雑誌名] NP/A

549

(1992)

P327

DATA1480

[TITLE] HIGH-SPIN SPECTROSCOPIC STUDY OF ^{167}Lu

[AUTH] C. H. YU

[雑誌名] NP/A

511

(1990)

P157

DATA1481

[TITLE] TARGET RAPIDITY PROTON DISTRIBUTIONS FOR $\text{Si}+\text{A}$ COLLISIONS AT THE AGS.

[AUTH] Y. AKIBA

[雑誌名] NP/A

544

(1992)

P445C

DATA1482

[TITLE] $^9\text{Be}(\alpha, p)^{12}\text{B}$ REACTION AND PRIMORDIAL NUCLEOSYNTHESIS

[AUTH] S. KUBONO

[雑誌名] NP/A

542

(1992)

P91

DATA1483

[TITLE] STATISTICAL EMISSION OF COMPLEX FRAGMENTS PRODUCED IN THE REACTION $^{37}\text{Cl}+^{68}\text{Zn}$

[AUTH] Y. NAGAME

[雑誌名] NP/A

510

(1990)

P518

DATA1484

[TITLE] (K^-, K^+) REACTION ON NUCLEAR TARGETS AT $P_{K^-} = 1.65\text{GeV}/c$

[AUTH] T. IJIMA

[雑誌名] NP/A

546

(1992)

P588

DATA1485

[TITLE] ANALYZING POWERS FOR $2H(d, p)3H$ AT INCIDENT ENERGIES OF 30, 50, 70, AND 90KEV

[AUTH] Y. TAGISHI

[雑誌名] PR/C

46

(1992)

PR1155

DATA1486

[TITLE] $14C(p, n)14N$ REACTION AT $E_p=35MEV$

[AUTH] M. KABASAWA

[雑誌名] PR/C

45

(1992)

P1220

DATA1487

[TITLE] MEASUREMENT OF PARTICLE PRODUCTION IN PROTON-INDUCED REACTIONS AT 14.6GEV/
C

[AUTH] T. ABBOTT

[雑誌名] PR/D

45

(1992)

P3906

DATA1488

[TITLE] FORWARD AND TRANSVERSE ENERGIES IN RELATIVISTIC HEAVY ION COLLISIONS AT 14
.6GEV/C PER NUCLEON

[AUTH] T. ABBOTT

[雑誌名] PR/C

44

(1991)

P1611

DATA1489

[TITLE] ANTIPROTON PRODUCTION IN 14.6 A GEV/C Si+A COLLISIONS

[AUTH] T. ABBOTT

[雑誌名] PL/B

271

(1991)

P447

DATA1490

[TITLE] COULOMB EXCITATION OF $154Sm$

[AUTH] T. MORIKAWA

[雑誌名] ZP/A

343

(1992)

P373

DATA1491

[TITLE] GLOBAL TRANSVERSE ENERGY DISTRIBUTIONS IN RELATIVISTIC NUCLEAR COLLISIONS AT 14.6A GEV/C

[AUTH] T. ABBOTT

[雑誌名] PR/C

45

(1992)

P2933

DATA1492

[TITLE] DISAPPEARANCE OF FLOW AS A FUNCTION OF IMPACT PARAMETER AND ENERGY IN NUCLEUS-NUCLEUS COLLISIONS

[AUTH] J. P. SULLIVAN

[雑誌名] PL/B

249

(1990)

P8

DATA1493

[TITLE] COMPLEX FRAGMENT DISTRIBUTIONS IN $84\text{Kr}+27\text{Al}$ AT $\text{ELAB}=10.6\text{MEV/U}$

[AUTH] K. YUASA-NAKAGAWA

[雑誌名] PL/B

283

(1992)

P185

DATA1494

[TITLE] HIGH-RESOLUTION MEASUREMENTS OF ANALOGUE STATES IN $59, 61, 63\text{Cu}$

[AUTH] E. ARAI

[雑誌名] NP/A

256

(1976)

P127

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、およびそ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)
昭和55	——	——	2,144	5.96	2,144	5.96
昭和56	1,912	5.74	1,824	6.81	3,968	12.78
昭和57	2,080	7.14	1,801	6.52	5,769	19.30
昭和58	2,200	7.00	2,252	6.53	8,021	25.83
昭和59	1,700	5.60	1,703	5.03	9,724	30.86
昭和60	1,800	5.60	2,170	5.50	11,894	36.36
昭和61	1,000	3.20	962	3.14	12,856	39.50
昭和62	1,100	3.50	1,364	3.16	14,220	42.66
昭和63	1,500	3.50	1,384	3.30	15,604	45.96
平成1	1,500	3.20	1,224	3.20	16,828	49.16
平成2	1,200	3.20	1,282	2.90	18,100	52.06
平成3	1,000	3.00	789	2.20	18,889	54.26
平成4	1,000	3.00	1,620	3.00	20,509	57.26
平成5	1,000	3.00	1,096	3.09	21,605	60.35

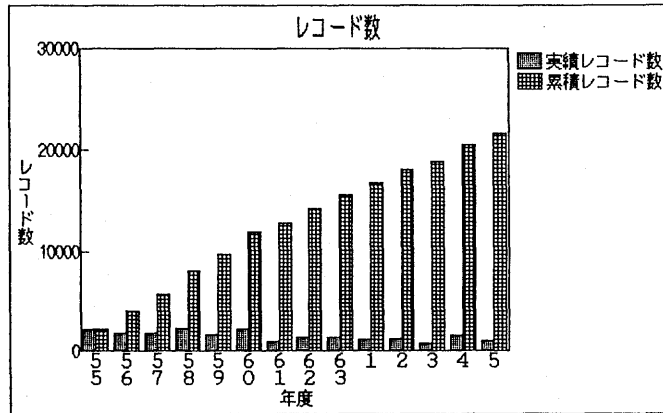


図 1 . N R D F 各年度収録実績レコード数と累積レコード数

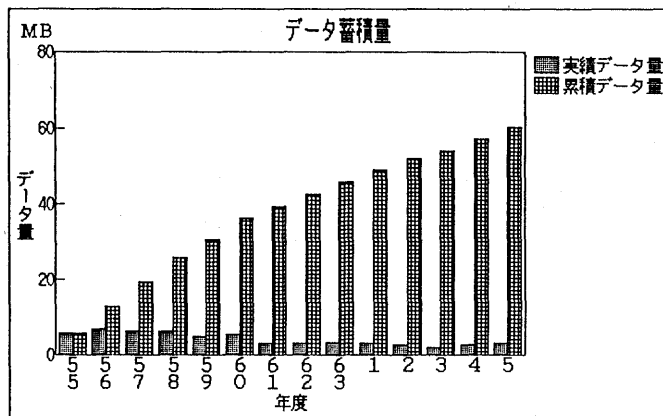


図 2 . N R D F 各年度収録実績データ量と累積データ量

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944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	件数
1968	2
1969	3
1970	3
1971	0
1972	2
1973	16
1974	10
1975	10
1976	18
1977	18
1978	86
1979	150
1980	59
1981	39
1982	90
1983	110
1984	87
1985	62
1986	37
1987	25
1988	41
1989	15
1990	30
1991	13
1992	14
1993	4

図 3

