

(資料)

1994年度入力データ

Data-entries of 1994

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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56編であった；

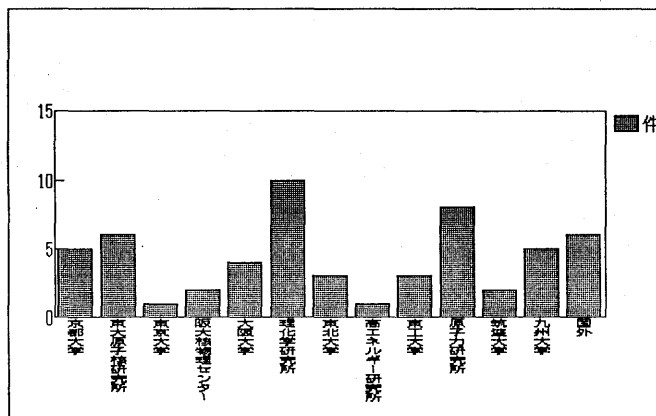
①アニュアルレポート,

- ・東大核研 (INS)
- ・九州大学 (KYUSHU UNIVERSITY TANDEM ACCELERATOR LABORATORY REPORT)
- ・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。

DATA1495

[TITLE] LARGE-ANGLE SCATTERING OF 3He PARTICLES BY 58Ni

[AUTH] H. KAMITSUBO, AT AL.

[雑誌名] PL/B

28

(1969)

P408

DATA1496

[TITLE] QUASIFREE SCATTERING IN THE $6\text{Li}(\alpha, 2\alpha)2\text{H}$ REACTION AT $E\alpha$ BETWEEN 77 AND 119 MEV

[AUTH] A. OKIHANA, AT AL.

[雑誌名] NP/A

549

(1992)

P1

DATA1497

[TITLE] MEASUREMENTS OF TENSOR ANALYZING POWERS IN THE $1\text{H}(d, 2p)\text{N}$ REACTION AT 200 MEV

[AUTH] T. MOTOBAYASHI, AT AL.

[雑誌名] PL/B

233

(1989)

P69

DATA1498

[TITLE] DETERMINATION OF THE ASTROPHYSICAL $13\text{N}(p, \gamma)14\text{O}$ CROSS SECTION THROUGH THE COULOMB DISSOCIATION METHOD

[AUTH] T. MOTOBAYASHI, AT AL.

[雑誌名] PL/B

264

(1991)

P259

DATA1499

[TITLE] DIRECT EXPERIMENTAL EVIDENCE FOR STRONG, SEQUENTIAL, TWO-STEP, TRANSFER PROCESSES IN ALLOWED (p, t) REACTIONS

[AUTH] S. KUNORI, AT AL.

[雑誌名] PRL
46 (1981) P810

DATA1500

[TITLE] β -DECAY ASYMMETRIES IN POLARIZED ^{12}B AND ^{12}N AND THE G-PARITY-NONCONSERVING WEAK INTERACTION

[AUTH] K. SUGIMOTO, AT AL.

[雑誌名] PRL
34 (1975) P1533

DATA1501

[TITLE] THE $\text{H}_{11/2}$ STATES IN ^{90}Y OBSERVED FROM THE EXCITATION FUNCTIONS FOR THE (d, p) REACTION

[AUTH] T. YAMAYA, AT AL.

[雑誌名] JPJ
38 (1975) P601

DATA1502

[TITLE] COMPONENTS OF COLLECTIVE FLOW AND AZIMUTHAL DISTRIBUTIONS IN $^{40}\text{Ar}+^{27}\text{Al}$ AND $^{40}\text{Ar}+^{58}\text{Ni}$ COLLISIONS BELOW 85MEV/U

[AUTH] W. Q. SHEN, AT AL.

[雑誌名] NP/A
551 (1993) P333

DATA1503

[TITLE] EXCITED STATES OF ^4He OBSERVED IN THE $^6\text{Li}+d$ REACTION

[AUTH] K. FUKUNAGA, AT AL.

[雑誌名] JPJ
44 (1978) P1413

DATA1504

[TITLE] DEUTERON BREAK-UP REACTION ON ^4He

[AUTH] T. KAMBARA, AT AL.

[雑誌名] JPJ
44 (1978) P704

DATA1505

[TITLE] ANOMALOUS L=0 TRANSITON OBSERVED IN THE REACTION $40\text{Ca}(p, t)38\text{Ca}$

[AUTH] S. KUBONO, AT AL.

[雑誌名] PL/B

49

(1974)

P37

DATA1506

[TITLE] ON THE TRIAXIAL DEFORMATION IN TRANSITIONAL ODD-A NUCLEI

[AUTH] T. YAMAZAKI, AT AL.

[雑誌名] JPJ

44

(1978)

P1421

DATA1507

[TITLE] LEVEL STRUCTURE OF 75Se BY THE $75\text{As}(p, n\gamma)75\text{Se}$ REACTION

[AUTH] T. SUGIMITSU, AT AL.

[雑誌名] NP/A

224

(1974)

P199

DATA1508

[TITLE] LOW-LYING LEVELS IN 120Sb STUDIED WITH THE $120\text{Sn}(p, n\gamma)$ REACTION

[AUTH] M. ADACHI, AT AL.

[雑誌名] NP/A

314

(1979)

P80

DATA1509

[TITLE] LIFETIMES OF THE FIRST AND SECOND EXCITED $3/2$ STATES IN 55Co

[AUTH] M. ADACHI, AT AL.

[雑誌名] NP/A

263

(1976)

P173

DATA1510

[TITLE] ALPHA DECAY OF 215Fr

[AUTH] T. NOMURA, AT AL.

[雑誌名] PR/C

9

(1973)

P1168

DATA1511

[TITLE] STATES IN ^{197}Pt POPULATED BY THE (d, p), (d, t) AND (n, γ) REACTIONS

[AUTH] Y. YAMAZAKI, AT AL.

[雑誌名] PR/C

17

(1978)

P2061

DATA1512

[TITLE] POLARIZATION OF Λ HYPERONS PRODUCED BY THE QUASIFREE (π^+ , K^+) REACTION ON ^{12}C

[AUTH] S. AJIMURA, AT AL.

[雑誌名] PRL

68

(1992)

P2137

DATA1513

[TITLE] CENTRALITY DEPENDENCE OF K^+ AND π^+ MULTIPLICITIES FROM $\text{Si}+\text{A}$ COLLISIONS AT 14.6 AGeV/C

[AUTH] T. ABBOTT, AT AL.

[雑誌名] PL/B

291

(1992)

P341

DATA1514

[TITLE] BOSE-EINSTEIN CORRELATIONS IN $\text{Si}+\text{Al}$ AND $\text{Si}+\text{Au}$ COLLISIONS AT 14.6 AGeV/C

[AUTH] T. ABBOTT, AT AL.

[雑誌名] PRL

69

(1992)

P1030

DATA1515

[TITLE] CHARGE-EXCHANGE REACTION $^{12}\text{C}(^{12}\text{C}, ^{12}\text{N})^{12}\text{B}$ AT $E/A=135\text{MEV}$

[AUTH] T. ICHIHARA, AT AL.

[雑誌名] PL/B

323

(1994)

P278

DATA1516

[TITLE] THE LEVEL STRUCTURE OF ^{71}Ge BY THE $^{71}\text{Ga}(p, n)^{71}\text{Ge}$ REACTION

[AUTH] Y. ONIZUKA, AT AL.

[雑誌名] JPJ

38

(1975)

P308

DATA1517

[TITLE] MEASUREMENTS OF PROTON-PROTON DIFFERENTIAL CROSS SECTIONS AT 5, 7 AND 8MEV

[AUTH] K. IMAI, AT AL.

[雑誌名] NP/A

246

(1975)

P76

DATA1518

[TITLE] QUASIFREE $5\text{He}+3\text{He}\rightarrow\alpha+\alpha$ REACTION PROCESS IN THE $9\text{Be}(3\text{He}, \alpha\alpha)4\text{He}$ REACTION AT $E(3\text{He})=4.0\text{MEV}$

[AUTH] J. KASAGI, AT AL.

[雑誌名] NP/A

239

(1975)

P233

DATA1519

[TITLE] ISOMERIC YIELD RATION IN PROTON-, 3He , AND α -PARTICLE-INDUCED REACTIONS ON ^{197}Au

[AUTH] Y. NAGAME, AT AL.

[雑誌名] PR/C

41

(1990)

P889

DATA1520

[TITLE] NEW APPROACH TO SPIN ASSIGNMENTS OF INTERMEDIATE STRUCTURES IN $^{12}\text{C}(^{16}\text{O}, ^{12}\text{C})^{16}\text{O}$

[AUTH] Y. SUGIYAMA, AT AL.

[雑誌名] PR/C

49

(1994)

P3305

DATA1521

[TITLE] OBSERVATION OF AITC OSCILLATION FOR THE $^{160}\text{+}^{160}$ SYSTEM AT $E_{\text{lab}}=145\text{MEV}$

[AUTH] Y. SUGIYAMA, AT AL.

[雑誌名] PL/B

312

(1993)

P35

DATA1522

[TITLE] GROUND-STATE α -DECAY OF $N=128$ ISOTONES ^{216}Ra , ^{217}Ac AND ^{218}Th

[AUTH] T. NOMURA, AT AL.

[雑誌名] NP/A

217

(1973)

P253

DATA1523

[TITLE] HOLE STRENGTHS AND SPREADING WIDTHS OBSERVED IN $^{92}\text{Mo}(\rightarrow\text{p,d})^{91}\text{Mo}$ REACTION AT 65MEV

[AUTH] K. HISAMUCHI, ET AL.

[雑誌名] NP/A
564 (1993) P227

DATA1524

[TITLE] HIGH-SPIN STATES IN ^{107}Sn

[AUTH] T. ISHII, ET AL.

[雑誌名] ZP/A
347 (1993) P41

DATA1525

[TITLE] α -BEAM STUDY OF ^{105}In AND ^{103}In

[AUTH] T. ISHII, ET AL.

[雑誌名] ZP/A
343 (1992) P261

DATA1526

[TITLE] HALF-LIVES AND β MEASUREMENTS FOR NEW NUCLEI OF ^{89}Tc AND $^{89\text{m}}\text{Tc}$

[AUTH] K. HEIGUCHI, ET AL.

[雑誌名] ZP/A
338 (1991) P7

DATA1527

[TITLE] PRESCISSON AND POSTSCISSON CHARGED PARTICLE EMISSIONS FROM THE $^{19}\text{F}+^{159}\text{Tb}$ REACTION

[AUTH] H. IKEZOE, ET AL.

[雑誌名] PR/C
49 (1994) P968

DATA1528

[TITLE] PROJECTILE BREAK-UP AND THE CONTINUUM SPECTRA OF THE $(^3\text{He,d})$ REACTION

[AUTH] N. MATSUOKA, ET AL.

[雑誌名] NP/A
311 (1978) P173

DATA1529

[TITLE] THE LEVEL STRUCTURE OF ^{87}Nb

[AUTH] B. J. MIN, AT AL.

[雑誌名] NP/A

530

(1991)

P211

DATA1530

[TITLE] ELECTROMAGNETIC TRANSITION PROBABILITIES IN THE NATURAL-PARITY ROTATIONAL BANDS OF ^{155}Gd , ^{157}Gd

[AUTH] H. KUSAKARI, AT AL.

[雑誌名] PR/C

46

(1992)

P1257

DATA1531

[TITLE] LOW-LYING STATES IN ^{95}Tc STUDIED WITH THE $^{93}\text{Nb}(\alpha, 2n\gamma)^{95}\text{Tc}$ REACTION

[AUTH] T. SHIBATA, AT AL.

[雑誌名] NP/A

237

(1975)

P382

DATA1532

[TITLE] CHARGE AND MASS CHARACTERISTICS OF THE FRAGMENTS IN THE FISSION OF URANIUM ISOTOPES INDUCED BY ^{12}C IONS

[AUTH] M. C. DUH, AT AL.

[雑誌名] NP/A

550

(1992)

P281

DATA1533

[TITLE] (p, d) REACTIONS AT 52MEV. I. $^{58}\text{Ni}(p, d)^{57}\text{Ni}$ (EXPERIMENTAL)

[AUTH] H. OHNUMA, AT AL.

[雑誌名] JPJ

36

(1974)

P1236

DATA1534

[TITLE] POPULATION OF 6^- AND 5^- STATES IN ^{26}Al BY THE (α , d) REACTION

[AUTH] M. YASUE, AT AL.

[雑誌名] NP/A

563

(1993)

P457

DATA1535

[TITLE] HIGH RESOLUTION STUDY OF THE $g_{9/2}$ ISOBARIC ANALOGUE STATE IN ^{61}Cu

[AUTH] M. ADACHI, AT AL.

[雑誌名] JPJ

36

(1974)

P1266

DATA1536

[TITLE] THE ELASTIC AND INELASTIC SCATTERINGS OF ^3He FROM ^{12}C AT 24.0, 29.2, 34.7 AND 39.6 MEV

[AUTH] T. FUJISAWA, AT AL.

[雑誌名] JPJ

34

(1973)

P5

DATA1537

[TITLE] SPIN-FLIP PROBABILITIES VIA ISOBARIC ANALOGUE RESONANCES IN $^{50}\text{Ti}(p,p')^{50}\text{Ti}$
* INELASTIC SCATTERING

[AUTH] T. NOJIRI, AT AL.

[雑誌名] JPJ

37

(1974)

P1479

DATA1538

[TITLE] THE MULTI-STEP PROCESS IN THE $^{12}\text{C}(^3\text{He}, \alpha)^{11}\text{C}$ REACTION

[AUTH] S. YAMAJI, AT AL.

[雑誌名] JPJ

37

(1974)

P1191

DATA1539

[TITLE] ELASTIC SCATTERING OF ^{16}O ON ^9Be

[AUTH] K. FUJII, AT AL.

[雑誌名] JPJ

38

(1975)

P1563

DATA1540

[TITLE] ENERGY LEVELS OF ^{60}Co STUDIED BY THE (d, p) REACTION

[AUTH] S. UEHARA, AT AL.

[雑誌名] JPJ

38

(1975)

P936

DATA1541

[TITLE] NUCLEAR STRUCTURE STUDIES OF THE ODD-N GERMANIUM ISOTOPES WITH (d, p) REACTION

[AUTH] M. KATO, AT AL.

[雑誌名] NP/A

203

(1973)

P97

DATA1542

[TITLE] GROUND STATE BAND MEMBERS IS ^{236}U AND ^{230}Th STUDIED WITH THE (p, t) REACTION

[AUTH] E. TAKEKOSHI, AT AL.

[雑誌名] JPJ

36

(1974)

P336

DATA1543

[TITLE] STUDY OF THE $^{58}\text{Ni}(d, t)^{57}\text{Ni}$ REACTION AT 24MEV

[AUTH] H. OHNUMA , AT AL.

[雑誌名] JPJ

38

(1975)

P1557

DATA1544

[TITLE] INELASTIC SCATTERING OF PROTONS, ^3He , AND ^4He AT 30MEV/NUCLEON FROM ^{166}Er AND ^{176}Yb AND QUADRUPOLE MOMENTS OF THE OPTICAL POTENTIAL

[AUTH] O. KAMIGAITO, AT AL.

[雑誌名] PR/C

45

(1992)

P1533

DATA1545

[TITLE] (α , t) REACTION ON MEDIUM-WEIGHT ODD-MASS NUCLEI (^{101}V AND ^{55}Mn)

[AUTH] M. MATOBA, AT AL.

[雑誌名] NP/A

118

(1968)

P207

DATA1546

[TITLE] THE $1g_{9/2}$ NEUTRON STATE IN NUCLEI WITH NEUTRON NUMBERS BETWEEN 52 AND 82

[AUTH] T. ISHIMATSU, AT AL.

[雑誌名] JPJ

35

(1973)

P1579

DATA1547

[TITLE] PROTON SINGLE-PARTICLE STATES IN $^{21,23}\text{Na}$ THROUGH THE (d, n) REACTION

[AUTH] A. TERAKAWA, AT AL.

[雑誌名] pr/c
48 (1993) P2775

DATA1548

[TITLE] A NEW HIGH-SPIN ISOMER IN ^{145}Sm

[AUTH] A. FERRAGUT, AT AL.

[雑誌名] JPJ
62 (1993) P3343

DATA1549

[TITLE] HIGH-SPIN STATES IN THE ODD-ODD NUCLEUS ^{82}Y

[AUTH] J. MUKAI, AT AL.

[雑誌名] NP/A
568 (1994) P202

DATA1550

[TITLE] HIGH-SPIN ISOMERIC STATE IN ^{144}Pm

[AUTH] T. MURAKAMI, AT AL.

[雑誌名] ZP/A
345 (1993) P123

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
平成6	1,000	3.00	1,328	3.00	22,933	63.35

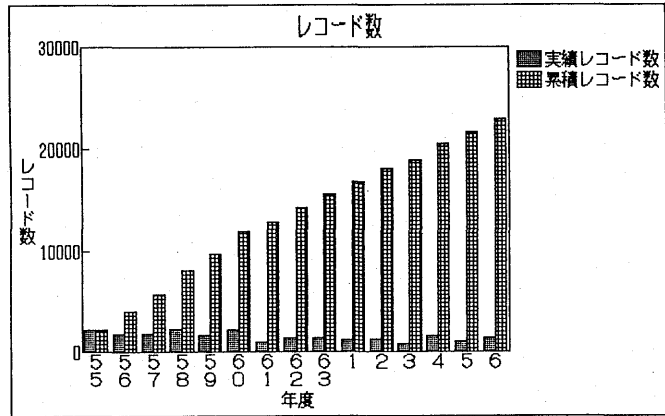


図 1 . N R D F 各年度収録実績レコード数と累積レコード数

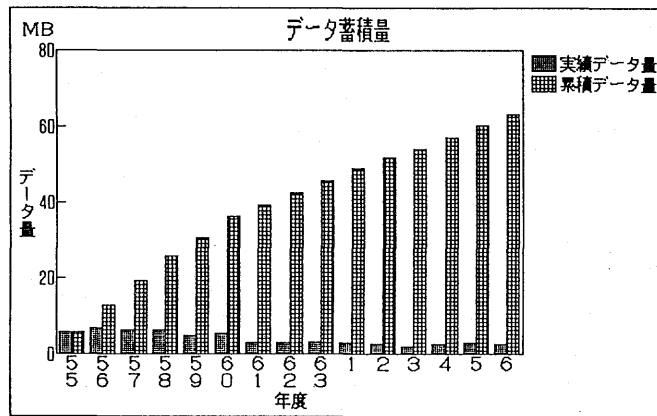


図 2 . N R D F 各年度収録実績データ量と累積データ量

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1000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	17
1975	19
1976	19
1977	18
1978	91
1979	151
1980	59
1981	40
1982	90
1983	110
1984	87
1985	62
1986	37
1987	25
1988	41
1989	16
1990	31
1991	14
1992	22
1993	12
1994	4

図 3

