

(資料)

1992年度入力データ
Data-entries of 1992

北海道大学理学部物理 吉田 瞳 加藤 幾 芳
Hitomi Yoshida and Kiyoshi Kato
Department of Physics, Hokkaido University

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65編であった；

① アニュアルレポート,

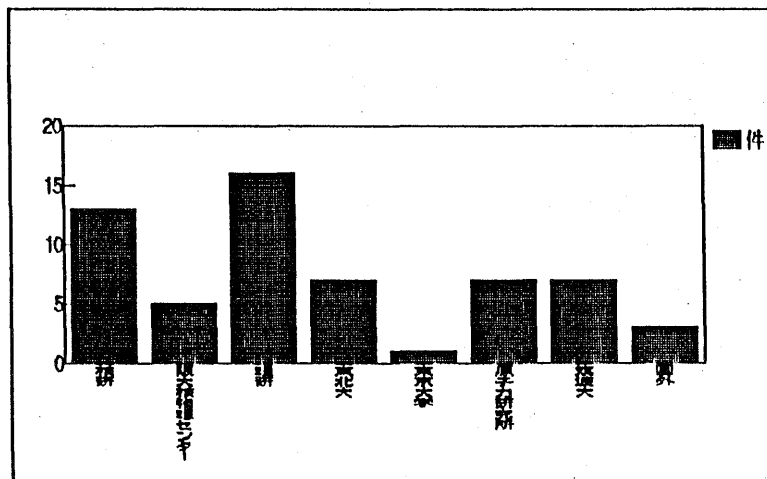
- ・ 東大核研 (INS)
- ・ 阪大核物理センター (RCNP)
- ・ 筑波大 (UTTAC)
- ・ 東北大 (CYRIC)
- ・ 原子力研究所 (JAERI TANDEM, LINAC & V.D.G.)
- ・ 理化学研究所 (RIKEN ACCELERATOR PROGRESS REPORT)

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数の内訳は以下のとおりである。

内 訳



- ・ 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。

DATA1375

[TITLE] $7\text{Li}(\alpha, 2\alpha)3\text{H}$ REACTION FROM 77 TO 119MEV

[AUTH] R. E. WARNER, AT AL.

[雑誌名] PHYSICAL REVIEW/C
45 (1992) P2328

DATA1376

[TITLE] OBSERVATION OF THE LOW-ENERGY OCTUPOLE RESONANCE IN 208Pb BY INELASTIC α SCATTERING

[AUTH] Y. FUJITA, AT AL.

[雑誌名] PHYSICAL REVIEW/C
45 (1992) P993

DATA1377

[TITLE] ACTINIDES PRODUCED BY $12\text{C}+242\text{Pu}$ AND $16\text{O}+238\text{U}$ REACTIONS

[AUTH] N. SHINOHARA, AT AL.

[雑誌名] PHYSICAL REVIEW/C
34 (1986) P909

DATA1378

[TITLE] HIGH SPIN STATES OF 2S-1D SHELL NUCLEI EXCITED BY (α , D) REACTION

[AUTH] Y. KADOTA, AT AL.

[雑誌名] NUCLEAR PHYSICS/A

458

(1986)

P523

DATA1379

[TITLE] THE 12C(D, P)13C REACTION AT ED=30MEV AND POSITIVE-PARITY STATES IN 13C

[AUTH] H. OHNUMA, AT AL.

[雑誌名] NUCLEAR PHYSICS/A

448

(1985)

P205

DATA1380

[TITLE] ON THE MOMENTUM DISTRIBUTIONS OF FRAGMENTS OF 11LI AND 11BE

[AUTH] ISAO TANIHATA

[雑誌名] RIKEN

(1991)

P1

DATA1381

[TITLE] DETERMINATION OF THE DENSITY DISTRIBUTION AND THE CORRELATION OF HALO NEUTRONS IN 11LI

[AUTH] I. TANIHATA, AT AL.

[雑誌名] RIKEN

P1

DATA1382

[TITLE] SPECTROSCOPY OF THE EXOTIC NUCLEUS 11LI VIA PION DOUBLE CHARGE EXCHANGE REACTION (π^- , π^+)11LI

[AUTH] T. KOBAYASHI

[雑誌名] RIKEN

(1991)

P1

DATA1383

[TITLE] MEASUREMENT OF THE 8LI(α , N)11B REACTION CROSS SECTION AT ENERGIES OF ASTROPHYSICAL INTEREST

[AUTH] R. N. BOYD, AT AL.

[雑誌名] RIKEN

P1

DATA1384

[TITLE] MEASUREMENTS OF $^{11}\text{Li} + \text{P}$ AND $^9\text{Li} + \text{P}$ ELASTIC SCATTERINGS AT 60MEV

[AUTH] C. B. MOON, AT AL.

[雑誌名] RIKEN

P1

DATA1385

[TITLE] MAGNETIC MOMENTS OF THE $[\pi h]$ $8+$ STATES IN PO ISOTOPE AND OF THE $[(\pi h)$ $8+ \text{VP}]$ STATE IN ^{209}PO

[AUTH] S. NAGAMIYA, AT AL.

[雑誌名] PHYSICAL REVIEW/C

211

(1973)

P381

DATA1386

[TITLE] IN-BEAM γ -RAY STUDY OF $^{189}, ^{191}, ^{193}\text{AU}$

[AUTH] Y. GONO, AT AL.

[雑誌名] NUCLEAR PHYSICS/A

327

(1979)

P269

DATA1387

[TITLE] EXCITED STATES IN ^{216}RA

[AUTH] Y. ITOH, AT AL.

[雑誌名] NUCLEAR PHYSICS/A

410

(1983)

P156

DATA1388

[TITLE] INTERMEDIATE STRUCTURES IN $^{12}\text{C}+^{16}\text{O}$ SYSTEM THROUGH ALPHA-INDUCED REACTIONS ON ^{24}MG

[AUTH] F. SOGA, AT AL.

[雑誌名] PHYSICAL REVIEW/C

18

(1978)

P2457

DATA1389

[TITLE] STATISTICAL ANALYSIS OF PREEQUILIBRIUM α -PARTICLE SPECTRA AND POSSIBLE LOCAL HEATING

[AUTH] T. NOMURA, AT AL.

[雑誌名] PHYSICAL REVIEW LETTERS

40

(1978)

P694

DATA1390

[TITLE] CORRELATION BETWEEN ANGULAR ANISOTROPY AND FRAGMENT MASS IN 15 MEV PROTON-INDUCED FISSION OF 232TH

[AUTH] H. KUDO, AT AL.

[雑誌名] PHYSICAL REVIEW/C
25 (1982) P909

DATA1391

[TITLE] IN-BEAM α -AND γ -RAY SPECTROSCOPY FOR 216RA

[AUTH] T. NOMURA, AT AL.

[雑誌名] PHYSICS LETTERS/B
58 (1975) P273

DATA1392

[TITLE] IN-BEAM ALPHA SPECTROSCOPY OF N=128 ISOTONES. LIFETIMES OF 216RA AND A NEW ISOTOPE 217AC

[AUTH] T. NOMURA, AT AL.

[雑誌名] PHYSICS LETTERS/B
40 (1972) P543

DATA1393

[TITLE] ALPHA-PARTICLE DECAY OF 218TH, A NEW ISOTOPE

[AUTH] K. HIRUTA, AT AL.

[雑誌名] PHYSICS LETTERS/B
45 (1973) P244

DATA1394

[TITLE] FULL RECOIL ANALYSIS OF THE ELASTIC SCATTERING OF 16O ON 19F BY THE CORE-EXCHANGE MODEL

[AUTH] T. MOTOBAYASHI, AT AL.

[雑誌名] PHYSICS LETTERS/B
59 (1975) P421

DATA1395

[TITLE] GAMMA-RAYS FROM AN INCOMPLETE FUSION REACTION INDUCED BY 95MEV 14N

[AUTH] T. INAMURA, AT AL.

[雑誌名] PHYSICS LETTERS/B
68 (1977) P51

DATA1396

[TITLE] ANGULAR-MOMENTUM TRANSFER AND ALIGNMENT FOLLOWING PREEQUILIBRIUM α -PARTICLE EMISSION IN THE REACTION $^{209}\text{Bi}+^{14}\text{N}$

[AUTH] H. UTSUNOMIYA, AT AL.

[雑誌名] PHYSICS LETTERS/B
105 (1981) P135

DATA1397

[TITLE] EFFECTS OF SEQUENTIAL DECAY IN NUCLEAR ELEMENT DISTRIBUTIONS OF COMPLEX FRAGMENTS FOR $^{86}\text{Kr}+^{27}\text{Al}$ AT 10.6MEV/U

[AUTH] S. M. LEE, AT AL.

[雑誌名] NUCLEAR PHYSICS/A
519 (1990) P221

DATA1398

[TITLE] THE BAND STRUCTURE AND TRIAXIAL SHAPE IN ^{118}Xe

[AUTH] C. B. MOON, AT AL.

[雑誌名] NUCLEAR PHYSICS/A
510 (1990) P173

DATA1399

[TITLE] ELASTIC AND INELASTIC SCATTERING OF 52MEV PROTONS FROM ^{106}Pd , ^{108}Pd AND ^{110}Pd

[AUTH] M. KOIKE, AT AL.

[雑誌名] NUCLEAR PHYSICS/A
248 (1975) P237

DATA1400

[TITLE] IN-BEAM STUDY OF ^{136}Ce AND ^{138}Nd ISOTONES WITH $N=78$

[AUTH] N. YOSHIKAWA, AT AL.

[雑誌名] NUCLEAR PHYSICS/A
243 (1975) P143

DATA1401

[TITLE] QUASI-GAMMA BANDS IN EVEN-MASS Xe AND Ba NUCLEI

[AUTH] H. KUSAKARI, AT AL.

[雑誌名] NUCLEAR PHYSICS/A
242 (1975) P13

DATA1402

[TITLE] RELATIVE STRENGTH ($\Delta S=1$) [$(\Delta S=0)+(\Delta S=1)$] OF ISOVECTOR SPIN EXCITATIONS IN THE HIGH-LYING RESONANCE REGION OF ^{12}C

[AUTH] S. NAKAYAMA, AT AL.

[雑誌名] PHYSICAL REVIEW LETTERS
67 (1991) P1082

DATA1403

[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] PHYSICAL REVIEW/C
45 (1992) P1533

DATA1404

[TITLE] SINGLE- AND MULTI-NUCLEON TRANSFER REACTIONS INDUCED BY ^{14}N AND ^{12}C ON FP-SHELL NUCLEI

[AUTH] I. KOHNO, AT AL.

[雑誌名] J. P. S. J.
42 (1977) P1

DATA1405

[TITLE] ($^3\text{He}, \text{D}$) STRIPPING TO BOUND AND UNBOUND STATES IN ^{29}P

[AUTH] K. KOYAMA, AT AL.

[雑誌名] J. P. S. J.
43 (1977) P755

DATA1406

[TITLE] ANALYZING POWER-POLARIZATION INEQUALITY IN THE INELASTIC SCATTERING OF PROTONS ON ^{12}C FOR INCIDENT ENERGIES FROM 22.0 TO 29.0MEV

[AUTH] T. FUJISAWA, AT AL.

[雑誌名] J. P. S. J.
50 (1981) P3198

DATA1407

[TITLE] INELASTIC SCATTERING OF PROTONS FROM ^{100}Mo AND ^{98}Mo

[AUTH] Y. AWAYA, AT AL.

[雑誌名] J. P. S. J.
33 (1972) P881

DATA1408

[TITLE] PRE-SCISSION 1H AND 4HE EMISSIONS IN 160+197AU REACTION

[AUTH] H. IKEZOE, AT AL.

[雑誌名] PHYSICAL REVIEW/C

42

(1990)

P1187

DATA1409

[TITLE] OBSERVATION OF THE LOW-ENERGY OCTUPOLE RESONANCE IN 208PB BY INELASTIC α SCATTERING

[AUTH] Y. FUJITA, AT AL.

[雑誌名] PHYSICAL REVIEW/C

45

(1992)

P993

DATA1410

[TITLE] MASS DISTRIBUTION OF FISSION FRAGMENTS IN THE 19F+197AU REACTION

[AUTH] H. IKEZOE, AT AL.

[雑誌名] Z. PHYS. /A

330

(1988)

P289

DATA1411

[TITLE] MASS YIELD CURVES IN LOW-ENERGY PROTON-INDUCED FISSION OF 233U, 235U, 236U, 237NP, 239PU, 242PU, 244PU, 241AM, ANK243AM

[AUTH] T. OHTSUKI, AT AL.

[雑誌名] PHYSICAL REVIEW/C

44

(1991)

P1405

DATA1412

[TITLE] A COMPARATIVE STUDY OF THE 13C(P, P')13C AND 13C(P, N)13N REACTION AT EP=35M EV

[AUTH] H. OHNUMA, AT AL.

[雑誌名] NUCLEAR PHYSICS/A

456

(1986)

P61

DATA1413

[TITLE] PROTON INELASTIC SCATTERING ON 28, 29, 30SI AND BLOCKING EFFECT IN THE CORE-EXCITATIONS OF 29SI

[AUTH] Y. TOBA, AT AL.

[雑誌名] J. P. S. J.

45

(1978)

P367

DATA1414

[TITLE] SPIN FLIP IN THE INELASTIC SCATTERING OF PROTONS FROM ^{12}C AT ENERGIES AROUND 13.1 MEV RESONANCE

[AUTH] S. KOBAYASHI, ET AL.

[雜誌名] J. P. S. J.
29 (1970) P1

DATA1415

[TITLE] ELASTIC AND INELASTIC SCATTERING OF 51.9 MEV PROTONS BY DOUBLY EVEN TELLURIUM NUCLEI

[AUTH] M. MATOBA, ET AL.

[雜誌名] NUCLEAR PHYSICS/A
237 (1975) P260

DATA1416

[TITLE] ANALYZING POWERS AND CROSS SECTIONS FOR (P, D) REACTIONS ON NUCLEI OF $N=50-82$

[AUTH] Y. AOKI, ET AL.

[雜誌名] NUCLEAR PHYSICS/A
393 (1983) P52

DATA1417

[TITLE] SYMMETRIC MASS DIVISION PROCESS IN THE REACTIONS $^{37}\text{Cl}+^{68}\text{Zn}$ AND $^{160}\text{Gd}+^{89}\text{Y}$

[AUTH] Y. NAGAME, ET AL.

[雜誌名] PHYSICS LETTERS/B
249 (1990) P13

DATA1418

[TITLE] STRUCTURE OF ^{74}Se WITH THE (P, T) REACTION AT 52 MEV

[AUTH] H. ORIHARA, ET AL.

[雜誌名] NUCLEAR PHYSICS/A
267 (1976) P276

DATA1419

[TITLE] EXCITATION OF 3-1, 5-1, AND 7-1 STATES IN THE ISOTOPES $A=120, 122, 124, 126, 128$ WITH (P, T) REACTIONS

[AUTH] M. MATOBA, ET AL.

[雜誌名] NUCLEAR PHYSICS/A
261 (1976) P223

DATA1420

[TITLE] ANALYZING POWERS FOR (P, D) REACTIONS ON 208PB AND 142, 144NDD EXCITING NEUTRON-HOLE STATES AT EP=22.0MEV

[AUTH] Y. TOBA, AT AL.

[雑誌名] NUCLEAR PHYSICS/A
359 (1981) P76

DATA1421

[TITLE] THE 26MG(3HE, N)28SI REACTION AT 23.1 AND 45.5MEV

[AUTH] K. ABE, AT AL.

[雑誌名] J. P. S. J.
54 (1985) P3660

DATA1422

[TITLE] COMPETITION OF TWO-STEP PROCESS WITH SPIN-DEPENDENT INTERACTION IN THE 14N(P, P')14N(2.31MEV)REACTION AT EP=21.0MEV

[AUTH] Y. AOKI, AT AL.

[雑誌名] J. P. S. J.
47 (1979) P329

DATA1423

[TITLE] EXCITATION OF THE ANALOG STATE IN THE 54FE(P, α)51MN REACTION AT 21MEV

[AUTH] Y. TAGISHI, AT AL.

[雑誌名] J. P. S. J.
47 (1979) P1735

DATA1424

[TITLE] OBSERVATION OF ISOSPIN MIXING FOR THE ISOBARIC ANALOG STATE IN 56CO THROUGH THE 56FE(P, N)56CO REACTION

[AUTH] H. ORIHARA, AT AL.

[雑誌名] NUCLEAR PHYSICS/A
403 (1983) P317

DATA1425

[TITLE] THE (P, N) REACTION ON CADMIUM ISOTOPES LEADING TO THE GROUND- AND EXCITED-STATE ANALOGS

[AUTH] T. MURAKAMI, AT AL.

[雑誌名] NUCLEAR PHYSICS/A
377 (1982) P163

DATA1426

[TITLE] MARKED CHANGES IN (P,T) ANALYZING POWERS FOR THE ISOTOPES OF ZR, MO, RU, AND PD AND STRONG, SEQUENTIAL, TWO-STEP TRANSFER PROCESSES IN BOTH (P,T) AND (T,P) REACTIONS

[AUTH] Y. AOKI, AT AL.

[雜誌名] PHYSICAL REVIEW/C

25

(1982)

P1050

DATA1427

[TITLE] DIFFERENCE IN ANOMALOUS $0g^+ \rightarrow 0g^+$ (P,T) ANALYZING POWERS FOR THE ISOTONES AND PARTIAL CROSS SECTIONS FOR SPIN UP AND DOWN

[AUTH] Y. AOKI, AT AL.

[雜誌名] PHYSICAL REVIEW/C

25

(1982)

P1696

DATA1428

[TITLE] DESTRUCTIVE INTERFERENCE BETWEEN DIRECT AND INDIRECT PROCESSES IN (P,T) REACTIONS ON SPHERICAL VIBRATIONAL NUCLEI AND STRONG RESEMBLANCE TO THAT IN (P,T) REACTIONS ON WELL-DEFORMED NUCLEI

[AUTH] K. YAGI, AT AL.

[雜誌名] PHYSICAL REVIEW/C

15

(1977)

P1178

DATA1429

[TITLE] COINCIDENCE MEASUREMENTS OF LIGHT PARTICLES AND EVAPORATION RESIDUES IN THE $^{160}\text{Pb} + ^{27}\text{Al}$ FUSION REACTION

[AUTH] H. IKEZOE, AT AL.

[雜誌名] NUCLEAR PHYSICS/A

462

(1987)

P150

DATA1430

[TITLE] Q-VALUE DEPENDENCE OF INELASTIC SCATTERING AND MULTINUCLEON TRANSFER REACTIONS $^{27}\text{Al} + ^{16}\text{O}$ AT 88 MEV: OPTIMUM Q VALUES AND Q-VALUE DEPENDENCE OF ANGULAR DISTRIBUTIONS OF REACTION PRODUCTS

[AUTH] T. MIKUMO, AT AL.

[雜誌名] PHYSICAL REVIEW/C

21

(1980)

P620

DATA1431

[TITLE] PRE-SCISSION 4HE MULTIPLICITY IN THE $^{19}\text{F} + ^{197}\text{Au}$ REACTION

[AUTH] H. IKEZOE, AT AL.

[雜誌名] PHYSICAL REVIEW/C

42

(1990)

P342

DATA1432

[TITLE] EVAPORATION RESIDUE FORMATION COMPETING WITH THE FISSION PROCESS IN THE $19\text{7Au}+160,12\text{C}$ REACTIONS AND FISSION BARRIERS AT A SPECIFIED J WINDOW

[AUTH] S. BABA, AT AL.

[雑誌名] Z. PHYS. /A
331 (1988) P53

DATA1433

[TITLE] OBSERVATION OF THE DECAY OF A NEW ISOTOPE 57Cu AND ITS MIRROR TRANSITION

[AUTH] T. SHINOZUKA, AT AL.

[雑誌名] PHYSICAL REVIEW/C
30 (1984) P2111

DATA1434

[TITLE] NUCLEAR STRUCTURE OF EVEN LEAD ISOTOPES BY THE (P, T) REACTION

[AUTH] M. TAKAHASHI, AT AL.

[雑誌名] PHYSICAL REVIEW/C
27 (1983) P1454

DATA1435

[TITLE] EFFECTS OF ENTRANCE CHANNEL AND COMPOUND NUCLEUS IN THE FUSION CROSS SECTIONS FOR $28\text{Si}+28\text{Si}$, $160+40\text{Ca}$, $32\text{S}+30\text{Si}$, AND $12\text{C}+50\text{Cr}$

[AUTH] Y. NAGASHIMA, AT AL.

[雑誌名] PHYSICAL REVIEW/C
33 (1986) P176

DATA1436

[TITLE] ISOVECTOR DEFORMATION PARAMETERS FROM THE (P, N) REACTIONS ON $54, 56\text{Fe}$ AND $58, 60, 62, 64\text{Ni}$ AT 35MeV

[AUTH] K. MAEDA, AT AL.

[雑誌名] NUCLEAR PHYSICS/A
403 (1983) P1

DATA1437

[TITLE] NUCLEAR G FACTOR OF THE 2972KeV ISOMERIC STATE IN 130Xe

[AUTH] H. KUSAKARI, AT AL.

[雑誌名] PHYSICAL REVIEW/C
30 (1984) P821

DATA1438

[TITLE] COMPARISON OF THE γ -RAY YIELD FUNCTIONS FOR THE $^{12}\text{C}+^{24}\text{Mg}$ AND $^{16}\text{O}+^{28}\text{Si}$ REACTIONS

[AUTH] R. M. FREEMAN, AT AL.

[雑誌名] PHYSICAL REVIEW/C
20 (1979) P569

DATA1439

[TITLE] SYSTEMATICS OF OPTIMUM Q VALUES IN MULTINUCLEON TRANSFER REACTIONS INDUCED BY HEAVY IONS

[AUTH] T. MIKUMO, AT AL.

[雑誌名] PHYSICAL REVIEW/C
14 (1976) P1458

II. N R D F 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. N R D F 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	18,110	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

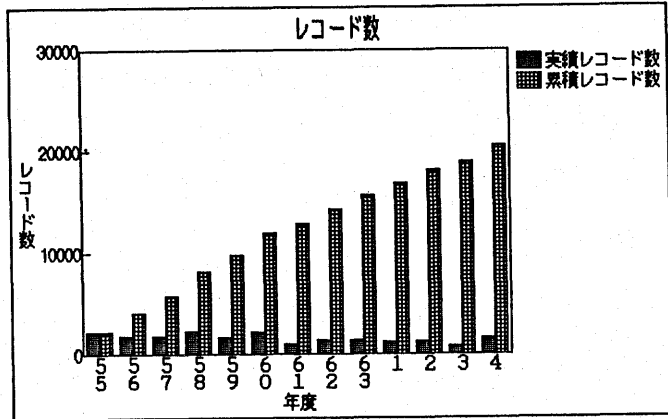


図 1 . N R D F 各年度収録実績レコード数と累積レコード数。

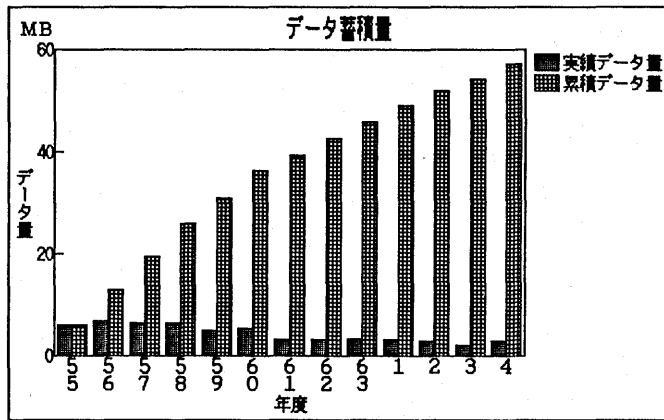


図 2 . N R D F 各年度収録実績データ量と累積データ量。

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917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
1969	1
1970	1
1971	0
1972	2
1973	16
1974	10
1975	10
1976	17
1977	18
1978	86
1979	150
1980	58
1981	37
1982	86
1983	109
1984	87
1985	54
1986	35
1987	25
1988	40
1989	14
1990	25
1991	5
1992	4

図 3

