

(資料)

1991年度入力データ

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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，

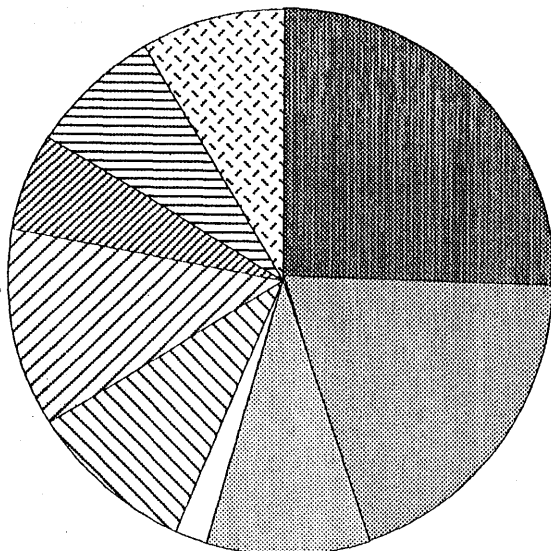
- ・ 東大核研 (INS)
- ・ 阪大核物理センター (RCNP)
- ・ 筑波大 (UTTAC)
- ・ 東北大 (CYRIC)
- ・ 原子力研究所 (JAERI TANDEM, LINAC & V.D.G.)
- ・ 九州大 (KYUSHU UNIVERSITY TANDEM ACCELERATOR LABORATORY REPORT)

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



- 1 東大原子核研究所
- 2 阪大核物理センタ
- 3 九州大学
- 4 理化学研究所
- 5 東北大学
- 6 高エネルギー研
- 7 原子力研究所
- 8 筑波大学
- 9 国外

- ・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。

DATA1307

[TITLE] STRUCTURE OF ^{14}C STUDIED BY THE $^{14}\text{C}(\text{P},\text{D})\ ^{13}\text{C}$ REACTION

[AUTH] M. YASUE, AT AL.

[雑誌名] NUCLEAR PHYSICS

A-509 (1990) p141

DATA1308

[TITLE] BREAKUP OF ^3He BY ALPHA PARTICLES AT 119.2MEV

[AUTH] T. SEKIOKA,

[雑誌名] NUCLEAR PHYSICS

A-510 (1990) p417

DATA1309

[TITLE] DEPOLARIZATION IN $\text{P}-^{15}\text{N}$ ELASTIC SCATTERING AND LARGE TONSON SPIN-SPIN INTERACTION

[AUTH] T. NAKANO, ET AL.

[雑誌名] PHYSICS LETTERS

B-240 (1990) p301

DATA1310

[TITLE] NEW HIGH-SPIN STRETCHED STATES IN ^{208}Pb OBSERVED BY THE (P,P') REACTION

[AUTH] Y. FUJITA, ET AL.

[雑誌名] PHYSICS LETTERS

B-247

(1990)

p219

DATA1311

[TITLE] DOMINANCE OF DIRECT REACTION PROCESS IN THE $^{12}\text{C}(^{7}\text{Li}, ^7\text{Be})^{12}\text{B}$ REACTION AT $E_L > -21\text{MEV}/A$

[AUTH] S. NAKAYAMA, ET AL.

[雑誌名] PHYSICS LETTERS

B-246

(1990)

p342

DATA1312

[TITLE] BREAK-UP OF DEUTERON BY VECTOR-POLARIZED DEUTERONS AT 60 MEV

[AUTH] K. FUKUNAGA, ET AL.

[雑誌名] FEW-BODY SYSTEMS

7

(1989)

p119

DATA1313

[TITLE] EXPERIMENTAL EXAMINATION OF THE LOWEST ALPHA CLUSTER STATES IN ^{44}Ti

[AUTH] T. YAMAYA, ET AL.

[雑誌名] PHYSICAL REVIEW

C-41

(1990)

p2421

DATA1314

[TITLE] EXISTENCE OF α -CLUSTER STRUCTURE IN ^{44}Ti VIA THE (Li, D) REACTION

[AUTH] T. YAMAYA, ET AL.

[雑誌名] PHYSICAL REVIEW

C-42

(1990)

p1935

DATA1315

[TITLE] POLARIZATION TRANSFER MEASUREMENTS FOR THE (D, PX) REACTION AT ED=65MEV
AND THE REACTION MECHANISM FOR THE PROTONS IN THE CONTINUUM

[AUTH] M. IEIRI, ET AT.

[雑誌名] NUCLEAR PHYSICS
A-504 (1989) p477

DATA1316

[TITLE] DENSITY DEPENDENT INTERACTION APPLIED TO LOW-MULTIPOLE (P, P') AND
(P, N) TRANSITIONS IN LIGHT NUCLEI

[AUTH] K. IEKI, ET AT.

[雑誌名] PHYSICAL REVIEW
C-42 (1990) p457

DATA1317

[TITLE] THE 16O(P, P') REACTION AT 35 MEV

[AUTH] H. OHNUMA, ET AT.

[雑誌名] NUCLEAR PHYSICS
A-514 (1990) p273

DATA1318

[TITLE] SYSTEMATIC ENHANCEMENT FOR THE 14C(P, T)12C REACTION LEADING TO THE T=0
STATES

[AUTH] M. YASUE, ET AT.

[雑誌名] NUCLEAR PHYSICS
A-510 (1990) p285

DATA1319

[TITLE] EXCITATION OF $J\pi = 2+$ RESONANCES IN 24MG BY THE 23NA(P, 12C)12C REACTION

[AUTH] K. KIMURA, ET AT.

[雑誌名] PHYSICS LETTERS
B-199 (1987) p331

DATA1320

[TITLE] PREEQUILIBRIUM (P,P') SPECTRA FOR NUCLEI AROUND NEUTRON NUMBER 50

[AUTH] Y. WATANABE, ET AT.

[雑誌名] PHYSICAL REVIEW

C-36

(1987)

p1325

DATA1321

[TITLE] ALPHA-PARTICLE ENERGY SPECTRA FROM THE (P, α) REACTION ON NUCLEI
AROUND ATOMIC NUMBER 50

[AUTH] I. KUMABE, ET AT.

[雑誌名] PHYSICAL REVIEW

C-38

(1988)

p2531

DATA1322

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

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

[雑誌名] NUCLEAR PHYSICS

A-519

(1990)

p221

DATA1323

[TITLE] INCIDENT ENERGY DEPENDENCE OF PREEQUILIBRIUM (P,P') SPECTRA

[AUTH] Y. WATANABE, ET AT.

[雑誌名] ZEITSCHRIFT FUR PHYSIK

A-ATOMIC NUCLEI

(1990)

p63

DATA1325

[TITLE] SPECTROSCOPY OF ^{24}Al THROUGH THE $^{24}\text{Mg}(P,N)^{24}\text{Al}$ REACTION AT EP=35MEV

[AUTH] G. C. KIANG, ET AT.

[雑誌名] NUCLEAR PHYSICS

A-499

(1989)

p339

DATA1326

[TITLE] THE PROTON THRESHOLD STATES IN 21MG RELEVANT TO THE RP-PROCESS

[AUTH] S. KUBONO, ET AT.

[雑誌名] ZEITSCHRIFT FUR PHYSIK
A-ATOMIC NUCLEI (1989) p511

DATA1327

[TITLE] PROTON PRODUCTION FROM SI+AU COLLISIONS AT 14.5 A·GEV

[AUTH] T. ABBOTT, ET AT.

[雑誌名] NUCLEAR PHYSICS
A-498 (1989) p409

DATA1328

[TITLE] PARTICLE SPECTRA NEAR MID-RAPIDITY STUDIED WITH CHERENKOV-COMPLEX SYSTEM IN 14.5 A·GEV SI+AU COLLISIONS

[AUTH] T. ABBOTT, ET AT.

[雑誌名] NUCLEAR PHYSICS
A-498 (1989) p415

DATA1330

[TITLE] EVIDENCE FOR A BOUND STATE OF THE $4\Sigma\text{He}$ HYPERNUCLEUS

[AUTH] R. S. HAYANO, ET AT.

[雑誌名] PHYSICS LETTERS
B-231 (1989) p355

DATA1331

[TITLE] Σ^- HYPERNUCLEAR BOUND STATE OBSERVED IN STOPPED K⁻ REACTION ON 4He

[AUTH] R. S. HAYANO, ET AT.

[雑誌名] IL NUOVO CIMENTO
102-A, N. 2 (1989) p437

DATA1332

[TITLE] DETERMINATION OF ^{193}Au AND ^{193}Hg ATOMIC MASSES BY THE
 $^{197}\text{Au}(\alpha, ^8\text{He})^{193}\text{Au}$ REACTION

[AUTH] S. KATO, ET AL.

[雑誌名] PHYSICAL REVIEW

C-39 (1989) p818

DATA1333

[TITLE] POLARIZATIONS AND CROSS SECTIONS OF Λ HYPERONS PRODUCED AT BACKWARD
ANGLES IN THE REACTION $\pi + ^{12}\text{C} \rightarrow \Lambda + X$ AT 4GEV/C

[AUTH] A. MANABE, ET AL.

[雑誌名] PHYSICAL REVIEW LETTERS

63 (1989) p490

DATA1334

[TITLE] FORMATION OF $4\Lambda\text{H}$ HYPERNUCLEI FROM K- ABSORPTION AT REST ON LIGHT
NUCLEI

[AUTH] H. TAMURA, ET AL.

[雑誌名] PHYSICAL REVIEW

C-40 (1989) p40

DATA1335

[TITLE] $4\Lambda\text{H}$ FORMATION FROM K- ABSORPTION AT REST ON ^4He , ^7Li , ^9Be , ^{12}C , ^{16}O AND
 ^{40}Ca TARGETS

[AUTH] H. TAMURA, ET AL.

[雑誌名] IL NUOVO CIMENTO

120A, N2 (1989) p575

DATA1336

[TITLE] NEW NEUTRON-DEFICIENT ISOTOPES ^{83}Nb AND ^{85}Nb

[AUTH] T. KUROYANAGI, ET AL.

[雑誌名] NUCLEAR PHYSICS

A-484 (1988) p264

DATA1337

[TITLE] RESULTS FROM THE BNL E802 SPECTROMETER FOR 14.5GEV/C PER NUCLEON SILICON BEAMS

[AUTH] T. ABBOTT, ET AT.

[雑誌名] NUCLEAR PHYSICS

A-498

(1989)

p67

DATA1338

[TITLE] KAON AND PION PRODUCTION IN CENTRAL SI+AU COLLISIONS AT 14.6 A.GEV/C

[AUTH] T. ABBOTT, ET AT.

[雑誌名] PHYSICAL REVIEW LETTERS

64

(1990)

p847

DATA1339

[TITLE] HIGH SPIN STRUCTURE IN THE ODD-ODD NUCLEUS 124CS

[AUTH] T. COMATSUBARA, ET AT.

[雑誌名] Z. PHYS.

A-335

(1990)

p113

DATA1343

[TITLE] SPECTROSCOPY OF POSITIVE PARITY STATES IN 26MG AND 26AL VIA THE (α , 3HE) AND (α , T) REACTIONS

[AUTH] M. YASUE, ET AT.

[雑誌名] PHYSICAL REVIEW

C-42

(1990)

p1279

DATA1347

[TITLE] ENERGY DAMPING FEATURE IN LIGHT HEAVY-ION REACTIONS

[AUTH] W. YOKOTA, ET AT.

[雑誌名] Z. PHYS.

A-333

(1989)

p379

DATA1350

[TITLE] THE EFFECT OF ANGULAR MOMENTUM COUPLING ON THE ANGULAR DISTRIBUTION OF FISSION FRAGMENTS

[AUTH] M. OGIHARA, ET AL.

[雑誌名] Z. PHYS.

A-335 (1990) p203

DATA1351

[TITLE] QUADRUPOLE MIXED-SYMMETRY STATES IN ^{56}Fe

[AUTH] J. TAKAMATSU, ET AL.

[雑誌名] COLLOQUE DE PHYSIQUE

C-6 (1990) p423

DATA1352

[TITLE] ANALYZING POWER OF C AND CU(P, 2P) QUASI-ELASTIC SCATTERING AT 3.5 GEV

[AUTH] C. OHMORI, AT AL.

[雑誌名] PHYSICS LETTERS

B-243 (1990) p29

DATA1353

[TITLE] DETERMINATION OF ^{200}Pb , ^{204}Po , ^{208}Rn , ^{212}Ra , AND ^{216}Th ATOMIC MASSES BY THE $^{204}\text{Pb}(\alpha, n)^{200}\text{Pb}$ REACTION

[AUTH] S. KUBONO, AT AL.

[雑誌名] PHYSICAL REVIEW

C-41 (1990) p2004

DATA1354

[TITLE] DETERMINATION OF ^{187}Ir ATOMIC MASS BY THE $^{187}\text{Os}(^3\text{He}, t)^{187}\text{Ir}$ REACTION

[AUTH] S. KATO, AT AL.

[雑誌名] PHYSICAL REVIEW

C-42 (1990) p1918

DATA1355

[TITLE] ISOSPIN FORBIDDEN (α, D) TRANSITIONS TO THE LOW-LYING STATES IN ^{26}Al

[AUTH] M. YASUE, AT AL.

[雑誌名] PHYSICAL REVIEW

C-43 (1991) p510

DATA1356

[TITLE] LOW-LYING EXCITED STATES IN ^{213}Rn AND ^{215}Ra

[AUTH] Y. FUKUCHI, AT AL.

[雑誌名] J. P. S. J.

57 (1988) p2976

DATA1357

[TITLE] MASS DISTRIBUTION OF FISSION FRAGMENTS IN THE $^{19}\text{F}+^{197}\text{Au}$ REACTION

[AUTH] H. IKEZOE, AT AL.

[雑誌名] Z. PHYS.

A-ATOMIC NUCLEI (1988) p289

DATA1358

[TITLE] EVAPORATION RESIDUE FORMATION COMPETING WITH THE FISSION PROCESS IN
THE $^{197}\text{Au}+^{16}\text{O}$, ^{12}C REACTIONS AND FISSION BARRIERS AT A SPECIFIED J WINDOW

[AUTH] S. BABA, AT AL.

[雑誌名] Z. PHYS.

A-ATOMIC NUCLEI (1988) p53

DATA1359

[TITLE] THE $P+^{19}\text{Ne}$ S-WAVE RESONANT STATE IN ^{20}Ne AT STELLAR ENERGIES

[AUTH] S. KUBONO, AT AL.

[雑誌名] Z. PHYS.

A-ATOMIC NUCLEI (1988) p359

DATA1360

[TITLE] OHW STRETCHED STATES OBSERVED IN THE (P,N) REACTIONS ON ^{22}Ne AND ^{26}Mg

[AUTH] H. ORIHARA, AT AL.

[雑誌名] PHYSICAL REVIEW

C-41

(1990)

p2414

DATA1361

[TITLE] $^{34}\text{S}(P,N)^{34}\text{Cl}$ REACTION AT 35 MEV AND ITS MICROSCOPIC DISTORTED-WAVE BORN APPROXIMATION ANALYSIS: STRINGENT TEST OF THE SAHELL MODEL

[AUTH] K. FURUKAWA, AT AL.

[雑誌名] PHYSICAL REVIEW

C-36

(1987)

p1686

DATA1362

[TITLE] ISOVECTOR $\Delta J\pi = 0$ TRANSITIONS OBSERVED IN THE (P,N) REACTIONS ON ^{13}C , ^{14}N , ^{15}N AND THE TENSOR PART OF THE EFFECTIVE N-N INTERACTIONS

[AUTH] H. ORIGARA, AT AL.

[雑誌名] PHYSICS LETTERS

B-187

(1987)

p240

DATA1363

[TITLE] ANALYZING POWERS FOR (P,T) TRANSITIONS TO THE FIRST-EXCITED 2^+ STATES OF MEDIUM-MASS NUCLEI AND NUCLEAR COLLECTIVE MOTION

[AUTH] K. NAGANO, AT AL.

[雑誌名] J. P. S. J.

56

(1988)

p1974

DATA1364

[TITLE] THE REACTION $^{12}\text{C}(^3\text{He}, N)^{14}\text{O}$ AT 45.5 MEV

[AUTH] K. ABE, AT AL.

[雑誌名] NUCLEAR PHYSICS

A-466

(1987)

p109

DATA1365

[TITLE] ONE- AND TWO-STEP PROCESSES IN NATURAL- AND UNNATURAL-PARITY
208PB(P, T)206PB REACTION AT EP=22 MEV

[AUTH] M. KUROKAWA, AT AL.

[雑誌名] NUCLEAR PHYSICS
A-470 (1987) p377

DATA1366

[TITLE] THE REACTION 26MG(3HE, N)28SI AT 23 AND 45 MEV

[AUTH] K. ABE, AT AL.

[雑誌名] NUCLEAR PHYSICS
A-462 (1987) p358

DATA1367

[TITLE] MECHANISM OF (D, α) REACTION : 208PB(D, α)206TL AND 90ZR(D, α)88Y
USING VECTOR-AND TENSOR-POLARIZED DEUTERONS

[AUTH] K. HASHIMOTO, AT AL.

[雑誌名] NUCLEAR PHYSICS
A-471 (1987) p520

DATA1368

[TITLE] TENSOR INTERACTION IN ELASTIC SCATTERING OF POLARIZED DEUTERONS FROM
MEDIUM-WEIGHT NUCLEI NEAR ED=22MEV

[AUTH] M. TAKEI, AT AL.

[雑誌名] NUCLEAR PHYSICS
A-472 (1987) p41

DATA1369

[TITLE] ENERGY DEPENDENCE OF TENSOR ANALYZING POWERS IN DEUTERON ELASTIC
SCATTERING FROM 208PB

[AUTH] T. MURAYAMA, AT AL.

[雑誌名] NUCLEAR PHYSICS
A-486 (1988) p261

DATA1370

[TITLE] PRE-EQUILIBRIUM PROCESS IN ^3He -INDUCED REACTION ON ^{59}Co , ^{109}Ag , ^{181}Ta
AND ^{209}Bi

[AUTH] Y. NAGAME, AT AL.

[雑誌名] NUCLEAR PHYSICS

A-486 (1988) p77

DATA1371

[TITLE] THE $^{31}\text{P}(\text{D}, \text{N})^{32}\text{S}$ REACTION AT 25 MEV

[AUTH] K. MIURA, AT AL.

[雑誌名] NUCLEAR PHYSICS

A-467 (1987) p79

DATA1372

[TITLE] $^{12}\text{C}(\text{P}, \text{N})^{12}\text{N}$ AND $^{16}\text{O}(\text{P}, \text{N})^{16}\text{F}$ REACTIONS AT $E_{\text{P}}=35$ AND 40 MEV: RELIABILITY
OF THE INFORMATION OBTAINED FROM DWBA ANALYSIS OF LOW-ENERGY (P, N) DATA

[AUTH] H. OHNUMA, AT AL.

[雑誌名] NUCLEAR PHYSICS

A-467 (1987) p61

II. N R D F データ量

表 1 は、N R D F 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)
55	——	——	2,144	5.96	2,144	5.96
56	1,912	5.74	1,824	6.81	3,968	12.78
57	2,080	7.14	1,801	6.52	5,769	19.30
58	2,200	7.00	2,252	6.53	8,021	25.83
59	1,700	5.60	1,703	5.03	9,724	30.86
60	1,800	5.60	2,170	5.50	11,894	36.36
61	1,000	3.20	962	3.14	12,856	39.50
62	1,100	3.50	1,364	3.16	14,220	42.66
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

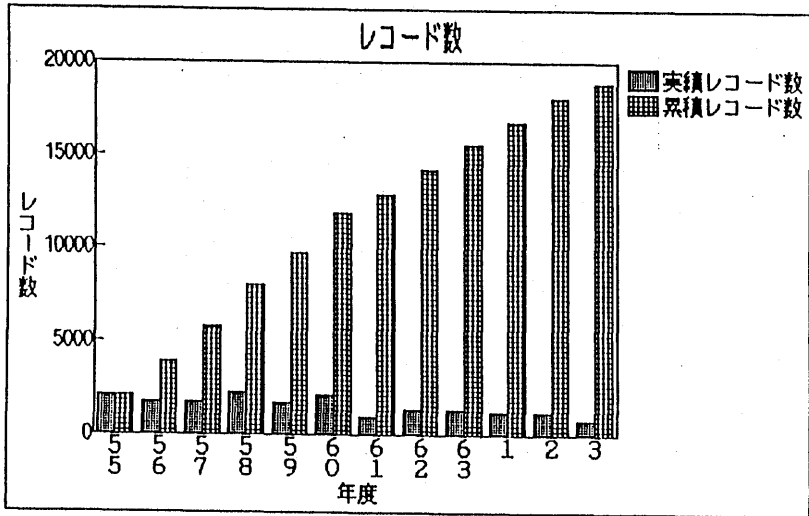


図 1 . N R D F 各年度収録実績レコード数と累積レコード数。

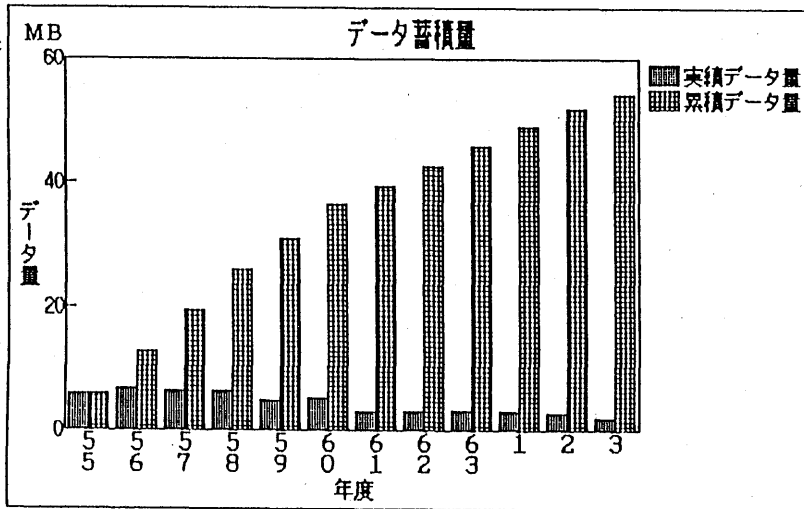


図 2 . N R D F 各年度収録実績データ量と累積データ量。

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829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	0
1971	0
1972	0
1973	14
1974	10
1975	4
1976	15
1977	14
1978	83
1979	146
1980	57
1981	34
1982	82
1983	104
1984	85
1985	52
1986	31
1987	24
1988	38
1989	14
1990	20
1991	1

図 3

