

2015 年度入力データ

Data-Entries of 2015

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1 今年度入力論文リスト

以下の雑誌からデータ収集・入力作業を行った。作業にあたって、国内外の研究機関に所属する著者の方々からご協力を得ることができ、質の高いデータ入力につながっている。

- Applied Radiation and Isotopes
- Journal of the Physical Society of Japan
- Journal of Radioanalytical and Nuclear Chemistry
- Nuclear Instruments and Methods in Physics Research B
- Nuclear Physics
- Physical Review C
- Physics Letters B
- Radiochimica Acta
- Radioisotopes

今年度新規に収録した全論文 45 編のリストを表 1 に示す。

表 1: 採録論文一覧

Data 2203

Title The angular distribution of protons from the C12(d,p)C13 reactions
Author S.Takemoto *et al.*
Reference J.Phys.Soc.Jpn. **9** (1954) 447
Table Total : 4 EXFOR : 4 Author : 0 Table : 1 Curve : 3 Unobt : 0

Data 2204

Title On the neutrons from the N14(d,n)O15 reaction
Author I.Nonaka *et al.*
Reference J.Phys.Soc.Jpn. **11** (1956) 1
Table Total : 1 EXFOR : 1 Author : 0 Table : 0 Curve : 1 Unobt : 0

Data 2205

Title Elastic scattering of 5.7 MeV protons from Ni and Cu
Author M.Takeda *et al.*
Reference J.Phys.Soc.Jpn. **12** (1957) 561
Table Total : 2 EXFOR : 2 Author : 0 Table : 0 Curve : 2 Unobt : 0

Data 2206

Title Elastic scattering of 5.7 MeV protons from Fe, Cr and Ti
Author M.Kondo *et al.*
Reference J.Phys.Soc.Jpn. **13** (1958) 231
Table Total : 3 EXFOR : 3 Author : 0 Table : 0 Curve : 3 Unobt : 0

Data 2207

Title Angular distribution of protons inelastically scattered from Mg24
Author S.Yamabe *et al.*
Reference J.Phys.Soc.Jpn. **13** (1958) 237
Table Total : 3 EXFOR : 3 Author : 0 Table : 0 Curve : 3 Unobt : 0

Data 2208

Title Gamma rays from the proton bombardment of silicon
Author E.Okada *et al.*
Reference J.Phys.Soc.Jpn. **13** (1958) 541
Table Total : 3 EXFOR : 3 Author : 0 Table : 2 Curve : 1 Unobt : 0

Data 2209

Title Elastic and inelastic scattering of protons from neon

Author M.Kondo *et al.*
Reference J.Phys.Soc.Jpn. **13** (1958) 771
Table Total : 14 EXFOR : 14 Author : 0 Table : 2 Curve : 12 Unobt : 0

Data 2210

Title Angular distribution of protons inelastically scattered from ²⁸Si and ²⁴Mg
Author S.Yamabe *et al.*
Reference J.Phys.Soc.Jpn. **13** (1958) 777
Table Total : 13 EXFOR : 13 Author : 0 Table : 4 Curve : 9 Unobt : 0

Data 2211

Title Scattering of protons by silicon and sulphur
Author Y.Oda *et al.*
Reference J.Phys.Soc.Jpn. **14** (1959) 1255
Table Total : 24 EXFOR : 24 Author : 0 Table : 0 Curve : 24 Unobt : 0

Data 2222

Title On the protons from the ¹⁴N(d,p)¹⁵N reaction
Author N.Kawai *et al.*
Reference J.Phys.Soc.Jpn. **16** (1961) 157
Table Total : 20 EXFOR : 20 Author : 0 Table : 0 Curve : 20 Unobt : 0

Data 2243

Title Elastic and inelastic collisions of 55 MeV proton with ⁴He
Author S.Hayakawa *et al.*
Reference J.Phys.Soc.Jpn. **19** (1964) 2004
Table Total : 3 EXFOR : 3 Author : 0 Table : 1 Curve : 2 Unobt : 0

Data 2245

Title Symmetric and asymmetric fission of ²³⁸U induced by helium ions
Author M. Seki *et al.*
Reference J.Phys.Soc.Jpn. **20** (1965) 190
Table Total : 1 EXFOR : 1 Author : 0 Table : 1 Curve : 0 Unobt : 0

Data 2246

Title Elastic and inelastic scattering of 28.5 MeV alpha-particles from ¹⁶O, ²⁰Ne, ²⁴Mg and ²⁸Si
Author J.Kokame *et al.*
Reference J.Phys.Soc.Jpn. **20** (1965) 475
Table Total : 22 EXFOR : 22 Author : 0 Table : 0 Curve : 22 Unobt : 0

Data 2248

Title (a,d) and (a,t) reactions on Be9, F19 and Al27 at 28.6 MeV
Author S.Kakigi *et al.*
Reference J.Phys.Soc.Jpn. **20** (1965) 1967
Table Total : 39 EXFOR : 39 Author : 0 Table : 6 Curve : 33 Unobt : 0

Data 2249

Title An experimental survey of nuclear reactions induced by 57 MeV protons part II (p,d) reactions.
Author Y.Ishizaki *et al.*
Reference J.Phys.Soc.Jpn. **20** (1965) 2118
Table Total : 24 EXFOR : 24 Author : 0 Table : 0 Curve : 24 Unobt : 0

Data 2250

Title Elastic and inelastic scattering of 28.4-MeV alpha particles by Sn, Cd, Ag, Cu and Ti
Author I.Kumabe *et al.*
Reference J.Phys.Soc.Jpn. **21** (1966) 413
Table Total : 25 EXFOR : 25 Author : 0 Table : 0 Curve : 25 Unobt : 0

Data 2251

Title Proton widths of excited states in ²⁹P by the ²⁸Si(³He,d)²⁹P reaction
Author H.Ejiri *et al.*
Reference J.Phys.Soc.Jpn. **21** (1966) 2110
Table Total : 7 EXFOR : 7 Author : 0 Table : 0 Curve : 7 Unobt : 0

Data 2255

Title Excitation of spin-flip states of light nuclei in inelastic scattering of alpha particles
Author H.Nakamura *et al.*
Reference J.Phys.Soc.Jpn. **22** (1967) 685
Table Total : 18 EXFOR : 18 Author : 0 Table : 0 Curve : 18 Unobt : 0

Data 2257

Title ⁸⁹Y(p,p') reaction at 14.71 MeV
Author Y.Awaya *et al.*
Reference J.Phys.Soc.Jpn. **23** (1967) 673
Table Total : 14 EXFOR : 14 Author : 0 Table : 0 Curve : 14 Unobt : 0

Data 2259

Title Inelastic scattering of alpha particles by Be9 at 28.5 MeV

Author K.Fukunaga *et al.*
Reference J.Phys.Soc.Jpn. **23** (1967) 911
Table Total : 5 EXFOR : 5 Author : 0 Table : 1 Curve : 4 Unobt : 0

Data 2260

Title Elastic scattering of tritons by ^{18}O
Author K.Etoh *et al.*
Reference J.Phys.Soc.Jpn. **24** (1968) 422
Table Total : 4 EXFOR : 4 Author : 0 Table : 0 Curve : 4 Unobt : 0

Data 2263

Title Level structure of ^{118}Sn from a $^{119}\text{Sn}(\text{p},\text{d})$ reaction
Author K. Yagi *et al.*
Reference J.Phys.Soc.Jpn. **24** (1968) 1167
Table Total : 8 EXFOR : 8 Author : 0 Table : 0 Curve : 8 Unobt : 0

Data 2272

Title Quasi-free scattering in the reaction $\text{Be}^9(\text{p},\text{p}\alpha)\text{He}^5$ at 55 MeV
Author S.Yamashita *et al.*
Reference J.Phys.Soc.Jpn. **26** (1969) 1078
Table Total : 2 EXFOR : 2 Author : 0 Table : 0 Curve : 2 Unobt : 0

Data 2279

Title The high excited levels of ^{27}Al
Author T.Wakatsuki *et al.*
Reference J.Phys.Soc.Jpn. **29** (1970) 815
Table Total : 13 EXFOR : 13 Author : 0 Table : 0 Curve : 13 Unobt : 0

Data 2300

Title Elastic scattering of carbon and nitrogen ions
Author I.Kohno *et al.*
Reference J.Phys.Soc.Jpn. **30** (1971) 910
Table Total : 22 EXFOR : 22 Author : 0 Table : 22 Curve : 0 Unobt : 0

Data 2310

Title Elastic and inelastic scattering of alpha-particles from even mass molybdenum isotopes
Author K.Matsuda *et al.*
Reference J.Phys.Soc.Jpn. **33** (1972) 298
Table Total : 15 EXFOR : 15 Author : 0 Table : 0 Curve : 15 Unobt : 0

Data 2395

Title Production of ^{67}Ga , ^{68}Ga by bombardment of natural zinc target with alpha and ^3He particles
 Author Y.Nagame *et al.*
 Reference RI **27** (1978) 631
 Table Total : 10 EXFOR : 10 Author : 0 Table : 0 Curve : 10 Unobt : 0

Data 2396

Title Production of $^{95\text{m}}\text{Tc}$ with proton bombardment of ^{95}Mo
 Author M.Izumo *et al.*
 Reference Appl.Radiat.Isot. **42** (1991) 297
 Table Total : 4 EXFOR : 4 Author : 0 Table : 1 Curve : 3 Unobt : 0

Data 2397

Title Production of ^{52}Fe by the $^{55}\text{Mn}(p,4n)^{52}\text{Fe}$ reaction and milking of $^{52\text{m}}\text{Mn}$ from ^{52}Fe
 Author K.Suzuki *et al.*
 Reference RI **34** (1985) 537
 Table Total : 3 EXFOR : 3 Author : 1 Table : 0 Curve : 2 Unobt : 0

Data 2464

Title Production of ^{28}Mg by triton and alpha-particle induced reactions
 Author T.Nozaki *et al.*
 Reference Appl.Radiat.Isot. **26** (1975) 17
 Table Total : 7 EXFOR : 7 Author : 0 Table : 0 Curve : 7 Unobt : 0

Data 2465

Title Production of ^{256}Lr in the $^{249,250,251}\text{Cf} + ^{11}\text{B}$, $^{243}\text{Am} + ^{18}\text{O}$, and $^{248}\text{Cm} + ^{14}\text{N}$ reactions
 Author N.Sato *et al.*
 Reference Radiochim.Acta **102** (2014) 211
 Table Total : 4 EXFOR : 4 Author : 0 Table : 4 Curve : 0 Unobt : 0

Data 2466

Title Production cross sections of niobium and tantalum isotopes in proton-induced reactions on natZr and natHf up to 14 MeV
 Author M.Murakami *et al.*
 Reference Appl.Radiat.Isot. **90** (2014) 149
 Table Total : 15 EXFOR : 15 Author : 0 Table : 15 Curve : 0 Unobt : 0

Data 2468

Title Neutron occupancy of the $0d_{5/2}$ orbital and the $N=16$ shell closure in ^{24}O

Author K.Tshoo *et al.*
Reference Phys.Lett.B **739** (2014) 19
Table Total : 3 EXFOR : 3 Author : 2 Table : 1 Curve : 0 Unobt : 0

Data 2469

Title Cross-section measurements of alpha+14N elastic scattering for He beam TOF-ERDA
Author K.Yasuda *et al.*
Reference Nucl.Instrum.Methods B **343** (2015) 1
Table Total : 2 EXFOR : 2 Author : 2 Table : 0 Curve : 0 Unobt : 0

Data 2471

Title Evidence of halo structure in ³⁷Mg observed via reaction cross sections and intruder orbitals beyond the island of inversion
Author M.Takechi *et al.*
Reference Phys.Rev.C **90** (2014) 061305
Table Total : 30 EXFOR : 30 Author : 30 Table : 0 Curve : 0 Unobt : 0

Data 2472

Title Photoneutron cross sections for samarium isotopes
Author D.M.Filipescu *et al.*
Reference Phys.Rev.C **90** (2014) 064616
Table Total : 7 EXFOR : 7 Author : 7 Table : 0 Curve : 0 Unobt : 0

Data 2473

Title Production cross-sections of long-lived radionuclides in deuteron-induced reactions on natural zinc up to 23 MeV
Author M.U.Khandaker *et al.*
Reference Nucl.Instrum.Methods B **346** (2015) 8
Table Total : 7 EXFOR : 7 Author : 0 Table : 7 Curve : 0 Unobt : 0

Data 2474

Title Density distribution of ¹⁴Be from reaction cross-section measurements
Author T.Moriguchi *et al.*
Reference Nucl.Phys.A **929** (2014) 83
Table Total : 2 EXFOR : 2 Author : 0 Table : 2 Curve : 0 Unobt : 0

Data 2476

Title Production of ²¹¹At by a vertical beam irradiation method
Author K.Nagatsu *et al.*
Reference Appl.Radiat.Isot. **94** (2014) 363

Table Total : 1 EXFOR : 1 Author : 1 Table : 0 Curve : 0 Unobt : 0

Data 2478

Title Photoneutron cross sections for neodymium isotopes

Author H.-T.Nyhus *et al.*

Reference Phys.Rev.C **91** (2015) 015808

Table Total : 5 EXFOR : 5 Author : 5 Table : 0 Curve : 0 Unobt : 0

Data 2479

Title Structure of ^8Li from a reaction cross-section measurement

Author G.W.Fan *et al.*

Reference Phys.Rev.C **90** (2014) 044321

Table Total : 4 EXFOR : 4 Author : 0 Table : 4 Curve : 0 Unobt : 0

Data 2480

Title Low-energy electric dipole response in ^{120}Sn

Author A.M.Krumbholz *et al.*

Reference Phys.Lett.B **744** (2015) 7

Table Total : 8 EXFOR : 8 Author : 8 Table : 0 Curve : 0 Unobt : 0

Data 2481

Title Production and separation of astatine isotopes in the $^7\text{Li} + \text{natPb}$ reaction

Author I.Nishinaka *et al.*

Reference J.Radioanal.Nucl.Chem. **304** (2015) 1077

Table Total : 5 EXFOR : 5 Author : 0 Table : 5 Curve : 0 Unobt : 0

Data 2482

Title gamma-ray spectroscopy of ^{19}C via the single-neutron knock-out reaction

Author Zs.Vajta *et al.*

Reference Phys.Rev.C **91** (2015) 064315

Table Total : 1 EXFOR : 1 Author : Table : 1 Curve : 0 Unobt : 0

今年度採録した論文の実験データが得られた研究所を表2に示す。

表 2: 実験実施研究所内訳

理化学研究所	11 件
大阪大学	9 件
東京大学	8 件
京都大学	6 件
日本原子力研究開発機構	3 件
放射線医学総合研究所	3 件
九州大学	2 件
高輝度光科学研究センター	2 件
東北大学	1 件
その他	1 件