

2014年度入力データ

Data-Entries of 2014

北海道大学大学院理学研究院
合川 正幸

AIKAWA Masayuki
Faculty of Science, Hokkaido University

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 Data Sheets
- Nuclear Instruments and Methods in Physics Research
- Nuclear Instruments and Methods in Physics Research B
- Nuclear Science and Engineering
- Physical Review C
- Physical Review Letters
- Radiochimica Acta

今年度新規に収録した全論文 22 編のリストを表 1 に示す。

表 1: 採録論文一覧

Data 2312

Title Measurement of the spin correlation parameters A_{yy} and A_{xx} of proton-proton scattering at 47.5 MeV
Author T.Hasegawa *et al.*
Reference J.Phys.Soc.Jpn. **33** (1972) 871
Table Total : 3 EXFOR : 3 Author : 0 Table : 2 Curve : 1 Unobt : 0

Data 2392

Title Production of ^{29}Al by the $^{26}\text{Mg}(\alpha,p)^{29}\text{Al}$ reaction and its tracer use
Author Y.Minai *et al.*
Reference Appl.Radiat.Isot. **41** (1990) 57
Table Total : 2 EXFOR : 2 Author : 0 Table : 0 Curve : 2 Unobt : 0

Data 2398

Title Large proton contribution to the $2+$ excitation in ^{20}Mg studied by intermediate energy inelastic scattering
Author N.Iwasa *et al.*
Reference Phys.Rev.C **78** (2008) 024306
Table Total : 2 EXFOR : 2 Author : 0 Table : 2 Curve : 0 Unobt : 0

Data 2399

Title Persistent decoupling of valence neutrons toward the dripline
Author Z.Elekes *et al.*
Reference Phys.Rev.C **79** (2009) 011302
Table Total : 2 EXFOR : 2 Author : 0 Table : 2 Curve : 0 Unobt : 0

Data 2450

Title Production of ^{262}Db in the $^{248}\text{Cm}(^{19}\text{F},5n)^{262}\text{Db}$ reaction and decay properties of ^{262}Db and ^{258}Lr
Author H.Haba *et al.*
Reference Phys.Rev.C **89** (2014) 024618
Table Total : 3 EXFOR : 3 Author : 0 Table : 3 Curve : 0 Unobt : 0

Data 2451

Title Deformation-driven p-wave halos at the drip line
Author T.Nakamura *et al.*
Reference Phys.Rev.Lett. **112** (2014) 142501
Table Total : 10 EXFOR : 10 Author : 1 Table : 9 Curve : 0 Unobt : 0

Data 2452

Title Complete set of deuteron analyzing powers for dp elastic scattering at 250-294 MeV/nucleon and the three-nucleon force
Author K.Sekiguchi *et al.*
Reference Phys.Rev.C **89** (2014) 064007
Table Total : 4 EXFOR : 4 Author : 4 Table : 0 Curve : 0 Unobt : 0

Data 2453

Title Neutron Production from Thick Targets of Carbon, Iron, Copper, and Lead by 30- and 52-MeV Protons
Author T.Nakamura *et al.*
Reference Nucl.Sci.Eng. **83** (1983) 444
Table Total : 44 EXFOR : 44 Author : 0 Table : 12 Curve : 32 Unobt : 0

Data 2454

Title Spectral measurements of neutrons and photons from thick targets of C, Fe, Cu and Pb by 52 MeV protons
Author T.Nakamura *et al.*
Reference Nucl.Instrum.Methods **151** (1978) 493
Table Total : 63 EXFOR : 63 Author : 0 Table : 8 Curve : 55 Unobt : 0

Data 2455

Title Charge-changing cross sections of ^{30}Ne , $^{32,33}\text{Na}$ with a proton target
Author A.Ozawa *et al.*
Reference Phys.Rev.C **89** (2014) 044602
Table Total : 6 EXFOR : 6 Author : 0 Table : 6 Curve : 0 Unobt : 0

Data 2456

Title Quadrupole collectivity in island-of-inversion nuclei $^{28,30}\text{Ne}$ and $^{34,36}\text{Mg}$
Author S.Michimasa *et al.*
Reference Phys.Rev.C **89** (2014) 054307
Table Total : 5 EXFOR : 5 Author : 0 Table : 5 Curve : 0 Unobt : 0

Data 2457

Title Investigation of (d,x) nuclear reactions on natural ytterbium up to 24 MeV
Author M.U.Khandaker *et al.*
Reference Nucl.Instrum.Methods B **335** (2014) 8
Table Total : 12 EXFOR : 12 Author : 0 Table : 12 Curve : 0 Unobt : 0

Data 2458

Title Observation of a p-wave one-neutron halo configuration in ^{37}Mg
Author N.Kobayashi *et al.*
Reference Phys.Rev.Lett. **112** (2014) 242501
Table Total : 8 EXFOR : 8 Author : 0 Table : 6 Curve : 2 Unobt : 0

Data 2460

Title Transmission through shields of quasi-monoenergetic neutrons generated by 43- and 68-MeV protons - I
Author N.Nakao *et al.*
Reference Nucl.Sci.Eng. **124** (1996) 228
Table Total : 2 EXFOR : 2 Author : 2 Table : 0 Curve : 0 Unobt : 0

Data 2461

Title Examination of the role of the $^{14}\text{O}(\alpha, p)^{17}\text{F}$ reaction rate in type-I x-ray bursts
Author J.Hu *et al.*
Reference Phys.Rev.C **90** (2014) 025803
Table Total : 3 EXFOR : 3 Author : 2 Table : 1 Curve : 0 Unobt : 0

Data 2462

Title Activation cross-sections of deuteron-induced nuclear reactions on natural titanium
Author M.U.Khandaker *et al.*
Reference NDS **119** (2014) 252
Table Total : 7 EXFOR : 7 Author : 0 Table : 7 Curve : 0 Unobt : 0

Data 2463

Title Elastic scattering of $^{25}\text{Al} + p$ to explore the resonance structure in ^{26}Si
Author H.S.Jung *et al.*
Reference Phys.Rev.C **90** (2014) 035805
Table Total : 2 EXFOR : 2 Author : 1 Table : 1 Curve : 0 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 2467

Title Deuteron-induced activation cross-sections on natural copper up to 24 MeV
 Author M.U.Khandaker *et al.*
 Reference J.Radioanal.Nucl.Chem. **302** (2014) 759
 Table Total : 5 EXFOR : 5 Author : 0 Table : 5 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 : 0 Table : 2 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

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

京都大学	1 件
東京大学	3 件
日本原子力研究開発機構	2 件
理化学研究所	17 件
その他	1 件