

2012 年度入力データ

Data-Entries of 2012

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1 今年度入力論文リスト

以下の雑誌から今年度のデータ収集を行った。データの収集・入力にあたって、国内外の多くの研究機関の著者の方々のご協力を得ることができ、質の高いデータ入力を行うことができた。今後も一層協力を緊密にする努力を重ね、データの直接入力を促進していく。

- Chinese Physics Society
- Journal of Nuclear Materials
- Journal of Nuclear Science and Technology
- Journal of the Korean Physical Society
- Journal of the Physical Society of Japan
- Nuclear Instruments and Methods in Physics Research A
- Nuclear Physics A
- Physical Review C
- Physical Review Letters
- Physics Letters, Section B
- Progress in Nuclear Science and Technology
- Supplement Radiation Measurements
- The European Physical Journal A
- 日本原子力研究所 JAERI-M レポート

今年度の収録論文全論文 36 編のリストを表 1 に示す。

表 1: 採録論文一覧

Data 2303

Title Fission of U and Th by gamma rays from 200 MeV to 1150 MeV
Author Y.Wakuta *et al.*
Reference J.Phys.Soc.Jpn. **31** (1971) 12
Table Total : 19 EXFOR : 19 Author : 0 Table : 0 Curve : 19 Unobt : 0

Data 2315

Title Emission of photoneutrons from ^{29}Si at photon energies up to 13 MeV
Author K.Fukuda *et al.*
Reference J.Phys.Soc.Jpn. **34** (1973) 315
Table Total : 2 EXFOR : 2 Author : 0 Table : 1 Curve : 1 Unobt : 0

Data 2318

Title Photoprotons from ^{27}Al
Author H.Tsubota *et al.*
Reference J.Phys.Soc.Jpn. **37** (1974) 17
Table Total : 4 EXFOR : 4 Author : 0 Table : 2 Curve : 2 Unobt : 0

Data 2322

Title Experimental studies of neutron emission spectra in Li(d,xn) reactions for IFMIF
Author M.Hagiwara *et al.*
Reference J.Nucl.Mater. **417** (2011) 1284
Table Total : 11 EXFOR : 11 Author : 11 Table : 0 Curve : 0 Unobt : 0

Data 2323

Title Experimental studies on deuteron-induced activation reactions in IFMIF accelerator structural elements
Author M.Hagiwara *et al.*
Reference J.Nucl.Mater. **417** (2011) 1267
Table Total : 6 EXFOR : 6 Author : 6 Table : 0 Curve : 0 Unobt : 0

Data 2326

Title Alpha resonance structure in ^{11}B studied via resonant scattering of $^7\text{Li} + \text{Alpha}$
Author H. Yamaguchi *et al.*
Reference Phys.Rev.C **83** (2011) 034306
Table Total : 4 EXFOR : 4 Author : 3 Table : 1 Curve : 0 Unobt : 0

Data 2342

Title Photoneutron cross sections for Au revisited
Author O.Itoh *et al.*
Reference J.Nucl.Sci.Technol. **48** (2011) 834
Table Total : 1 EXFOR : 1 Author : 0 Table : 1 Curve : 0 Unobt : 0

Data 2348

Title Measurement of ^{76}Se and $^{78}\text{Se}(\text{g},\text{n})$ cross sections
Author F.Kitatani *et al.*
Reference J.Nucl.Sci.Technol. **48** (2011) 1017
Table Total : 4 EXFOR : 4 Author : 0 Table : 4 Curve : 0 Unobt : 0

Data 2353

Title Fragmentation of 370 MeV/n ^{20}Ne and 470 MeV/n ^{24}Mg in light targets
Author A.N.Golovchenko *et al.*
Reference RM **45** (2010) 856
Table Total : 4 EXFOR : 4 Author : 0 Table : 3 Curve : 1 Unobt : 0

Data 2355

Title Complete electric dipole response and the neutron skin in ^{208}Pb
Author A.Tamii *et al.*
Reference Phys.Rev.Lett. **107** (2011) 062502
Table Total : 2 EXFOR : 2 Author : 0 Table : 0 Curve : 1 Unobt : 1

Data 2357

Title Screening potential of $^6\text{Li}(\text{d},\alpha)^4\text{He}$ and $^7\text{Li}(\text{p},\alpha)^4\text{He}$ reactions in liquid lithium
Author K.Fang *et al.*
Reference J.Phys.Soc.Jpn. **80** (2011) 084201
Table Total : 4 EXFOR : 4 Author : 4 Table : 0 Curve : 0 Unobt : 0

Data 2358

Title Measurements of neutrons generated by deuterons incident on thick Li targets
Author M.Sugimoto *et al.*
Reference JAERI-M- **91-170** (1991) 137
Table Total : 17 EXFOR : 17 Author : 17 Table : 0 Curve : 0 Unobt : 0

Data 2359

Title Resonance states in ^{27}P using Coulomb dissociation and their effect on the stellar reaction $^{26}\text{Si}(p,\gamma)^{27}\text{P}$
Author Y.Togano *et al.*
Reference Phys.Rev.C **84** (2011) 035808
Table Total : 3 EXFOR : 3 Author : 1 Table : 2 Curve : 0 Unobt : 0

Data 2360

Title Production and Decay Properties of ^{264}Hs and ^{265}Hs
Author N.Sato *et al.*
Reference J.Phys.Soc.Jpn. **80** (2011) 094201
Table Total : 3 EXFOR : 3 Author : 0 Table : 3 Curve : 0 Unobt : 0

Data 2361

Title The $^{71}\text{Ga}(^3\text{He},t)$ reaction and the low-energy neutrino response
Author D.Frekers *et al.*
Reference Phys.Lett.B **706** (2011) 134
Table Total : 4 EXFOR : 4 Author : 0 Table : 0 Curve : 4 Unobt : 0

Data 2363

Title Photoneutron cross section for $^{118-124}\text{Sn}$ and the gamma-ray strength function method
Author H.Utsunomiya *et al.*
Reference Phys.Rev.C **84** (2011) 055805
Table Total : 5 EXFOR : 5 Author : 5 Table : 0 Curve : 0 Unobt : 0

Data 2364

Title One-and two-neutron removal reactions from $^{19,20}\text{C}$ with a proton target
Author A.Ozawa *et al.*
Reference Phys.Rev.C **84** (2011) 064315
Table Total : 6 EXFOR : 6 Author : 3 Table : 3 Curve : 0 Unobt : 0

Data 2365

Title Deuteron-production double-differential cross sections for 300- and 392-MeV proton-induced reactions deduced from experiment and model calculation
Author Y.Uozumi *et al.*
Reference Phys.Rev.C **84** (2011) 064617
Table Total : 9 EXFOR : 9 Author : 9 Table : 0 Curve : 0 Unobt : 0

Data 2366

Title Measurement of energy-angular neutron distribution for ${}^7\text{Li}$, ${}^9\text{Be}(\text{p},\text{xn})$ reaction at $\text{EP} = 70 \text{ MeV}$ and 11 MeV

Author S.Kamada *et al.*

Reference KPS **59** (2011) 1676

Table Total : 3 EXFOR : 3 Author : 3 Table : 0 Curve : 0 Unobt : 0

Data 2367

Title Measurement of deuteron induced thick target neutron yields at 9 MeV

Author N.Shigyo *et al.*

Reference KPS **59** (2011) 1725

Table Total : 18 EXFOR : 18 Author : 18 Table : 0 Curve : 0 Unobt : 0

Data 2368

Title Interaction cross sections for Ne isotopes towards the island of inversion and halo structures of ${}^{29}\text{Ne}$ and ${}^{31}\text{Ne}$

Author M.Takechi *et al.*

Reference Phys.Lett.B **707** (2012) 357

Table Total : 26 EXFOR : 26 Author : 26 Table : 0 Curve : 0 Unobt : 0

Data 2369

Title Strong ${}^{25}\text{Al}+\text{p}$ resonances via elastic proton scattering with a radioactive ${}^{25}\text{Al}$ beam

Author J.Chen *et al.*

Reference Phys.Rev.C **85** (2012) 015805

Table Total : 3 EXFOR : 3 Author : 0 Table : 1 Curve : 2 Unobt : 0

Data 2370

Title Recoil proton tagged knockout reaction for ${}^8\text{He}$

Author Z.X.Cao *et al.*

Reference Phys.Lett.B **707** (2012) 46

Table Total : 3 EXFOR : 3 Author : 3 Table : 0 Curve : 0 Unobt : 0

Data 2371

Title Production of ${}^{265}\text{Sg}$ in the ${}^{248}\text{Cm}({}^{22}\text{Ne},5\text{n}){}^{265}\text{Sg}$ reaction and decay properties of two isomeric states in ${}^{265}\text{Sg}$

Author H.Haba *et al.*

Reference Phys.Rev.C **85** (2012) 024611

Table Total : 3 EXFOR : 3 Author : 0 Table : 3 Curve : 0 Unobt : 0

Data 2372

Title Experimental study of resonant states in ^{27}P via elastic scattering of $^{26}\text{Si}+p$
Author H.S.Jung *et al.*
Reference Phys.Rev.C **85** (2012) 045802
Table Total : 2 EXFOR : 2 Author : 1 Table : 1 Curve : 0 Unobt : 0

Data 2375

Title Isobaric analog resonances of the N=21 nucleus ^{35}Si
Author N.Imai *et al.*
Reference Phys.Rev.C **85** (2012) 034313
Table Total : 2 EXFOR : 2 Author : 1 Table : 1 Curve : 0 Unobt : 0

Data 2376

Title Knockout reaction induced by ^6He at 82.3 MeV/u
Author L.H.Lv *et al.*
Reference J.Phys.G **39** (2012) 065102
Table Total : 2 EXFOR : 2 Author : 2 Table : 0 Curve : 0 Unobt : 0

Data 2377

Title Quasi-elastic scattering of the proton drip line nucleus ^{17}F on ^{12}C at 60 MeV
Author G.L.Zhang *et al.*
Reference Eur.J.Phys.A **48** (2012) 65
Table Total : 2 EXFOR : 1 Author : 0 Table : 1 Curve : 0 Unobt : 0

Data 2378

Title Hindered proton collectivity in ^{28}S
Author Y.Togano *et al.*
Reference Phys.Rev.Lett. **108** (2012) 222501
Table Total : 2 EXFOR : 2 Author : 1 Table : 1 Curve : 0 Unobt : 0

Data 2380

Title Complete sets of polarization transfer observables for the $^{208}\text{Pb}(p,n)$ reaction at 296MeV and Gamow-Teller and spin-dipole strengths for ^{208}Pb
Author T.Wakasa *et al.*
Reference Phys.Rev.C **85** (2012) 064606
Table Total : 43 EXFOR : 43 Author : 43 Table : 0 Curve : 0 Unobt : 0

Data 2382

Title Identification of the beta+ isovector spin monopole resonance via the 208Pb and 90Zr(t,3He) reactions at 300 MeV/u
Author K.Miki *et al.*
Reference Phys.Rev.Lett. **108** (2012) 262503
Table Total : 18 EXFOR : 18 Author : 18 Table : 0 Curve : 0 Unobt : 0

Data 2384

Title N=16 spherical shell closure in 24O
Author K.Tshoo *et al.*
Reference Phys.Rev.Lett. **109** (2012) 022501
Table Total : 5 EXFOR : 5 Author : 3 Table : 2 Curve : 0 Unobt : 0

Data 2388

Title New result in the production and decay of an isotope, 278-113, of the 113th element
Author K.Morita *et al.*
Reference J.Phys.Soc.Jpn. **81** (2012) 103201
Table Total : 1 EXFOR : 1 Author : 0 Table : 1 Curve : 0 Unobt : 0

Data 2391

Title Well developed deformation in 42Si
Author S.Takeuchi *et al.*
Reference Phys.Rev.Lett. **109** (2012) 182501
Table Total : 1 EXFOR : 1 Author : 0 Table : 1 Curve : 0 Unobt : 0

Data 2400

Title Light charged-particle production in proton-induced reactions on 12C, 27Al, 58Ni, 90Zr, 197Au, and 209Bi at 42 and 68 MeV
Author M.Harada *et al.*
Reference NSTS **2** (2002) 393
Table Total : 472 EXFOR : 472 Author : 472 Table : 0 Curve : 0 Unobt : 0

Data 2404

Title Excitation functions of (d,x) nuclear reactions on natural titanium up to 24 MeV
Author M.U.Khandaker *et al.*
Reference Nucl.Instrum.Methods B **296** (2013) 14
Table Total : 14 EXFOR : 14 Author : 7 Table : 7 Curve : 0 Unobt : 0

今年度採録したデータは、以下の研究所で実験したものである。その内訳を表 2 に示す：

表 2: 実験実施研究所内訳

大阪大学核物理センター	4 件	大阪府立放射線中央研究所	1 件
九州大学	1 件	産業技術総合研究所	3 件
東京大学	2 件	東北大学	5 件
日本原子力機構	2 件	放射線医学総合研究所	1 件
理化学研究所	17 件		