

WP2011-43

EXFOR Database Updates

V.Zerkin, IAEA-NDS, 2011-05-23

EXFOR Database Updates

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Database as of: May 18, 2011

 Show new Entries Show old Entries

1) 2011/05/18 TRANS.M057 /CDFE/ Centre for Photonuclear Experiments Data, Moscow State Univ., Russia

- 1) **M0808** 2010 J.Ahrens Jour: European Physical Journal A: Hadrons and Nuclei, Vol.44, Issue.2, p.189 (2010) DOI: [10.1140/epja/i2010-10946-6](https://doi.org/10.1140/epja/i2010-10946-6)
Helicity dependence of the $gd \rightarrow pNN$ reactions in the D -resonanceregion
Subent:3 2011 Pnt:457 Ene=301-455MeV Target:H-2 Reaction:(g,pi0+n);(g,pin+p);(g,pip+n)
- 2) **M0806** 2010 Tran Duc Thiep Jour: Journal of Radioanalytical and Nuclear Chemistry, Vol.286, Issue.1, p.161 (2010) DOI: [10.1007/s10967-010-0630-5](https://doi.org/10.1007/s10967-010-0630-5)
The isomeric ratios in photonuclear reactions of natural strontium induced by bremsstrahlung in the giant dipole resonance region and by 65 MeV bremsstrahlung.
Subent:4 2011 Pnt:11 Ene=15-65MeV Target:Sr-86;Sr-87;Sr-88 Reaction:(g,n+p);(g,n);(g,2n);(g,3n)
- 3) **M0805** 2010 Tran Duc Thiep Jour: Journal of Radioanalytical and Nuclear Chemistry, Vol.285, Issue.3, p.511 (2010) DOI: [10.1007/s10967-010-0581-x](https://doi.org/10.1007/s10967-010-0581-x)
The isomeric ratio of fragment ^{135}Xe from photofission of ^{233}U induced by 23.5 MeV bremsstrahlung
Subent:1 2011 Pnt:1 Ene=23.5MeV Target:U-233 Reaction:(g,f)
- 4) **M0804** 2010 O.Yevetska Jour: Nucl. Instrum. Methods in Physics Res., Sect.A, Vol.618, p.160 (2010) DOI: [10.1016/j.nima.2010.02.091](https://doi.org/10.1016/j.nima.2010.02.091)
New experimental method for investigation of the nucleon polarizabilities.
Subent:2 2011 Pnt:9 Ene=32.4-51.4MeV An=130° Target:H-1 Reaction:(g,el)
- 5) **M0810** 2009 A.Gook Conf: Conf.proceedings by Am.Inst.of Phys., No.1175, p.351 (2009)
Photofission at the S-DALINAC.
Subent:4 2011 Pnt:12 Ene=6.5-9MeV Target:U-234;U-238 Reaction:(g,f)
- 6) **M0809** 2002 L.Lakosi Jour: Nuclear Physics, Section A, Vol.697, p.44 (2002) DOI: [10.1016/S0375-9474\(01\)01232-5](https://doi.org/10.1016/S0375-9474(01)01232-5)
Photoexcitation of ^{180}Ta by ^{60}Co and ^{137}Cs Gamma Rays
Subent:2 2011 Pnt:4 Ene=0.662-1.33MeV Target:Ta-180 Reaction:(g,inel)
- 7) **M0041** 1980 G.M.Gurevich Jour: Nuclear Physics, Section A, Vol.338, p.97 (1980) DOI: [10.1016/0375-9474\(80\)90124-4](https://doi.org/10.1016/0375-9474(80)90124-4)
Total Photoabsorption Cross Sections for High-Z Elements in the Energy Range 7-20 MeV
Subent:13 2011(1982) Pnt:631 Ene=7-21.8MeV Target:Sm-154;Gd-156;Ho-165;Er-168...Bi-209 Reaction:(g,tot)
- 8) **M0479** 1964 A.N.Gorbunov Jour: Physics Letters, Vol.11, p.137 (1964)
Cross sections of the reactions $\text{He-3}(g,p)\text{H-2}$ and $\text{He-3}(g,n)2p$.
Subent:5 2011(1991) Pnt:102 Ene=7-170MeV An=10-170° Target:He-3 Reaction:(g,p);(g,n+p)

2) 2011/05/18 TRANS.K010 /JCPRG/ Japan Charged Particle Nuclear Reaction Data Group, Hokkaido University, Sapporo, Japan

- 1) **K2295** 2010 H.Utsunomiya Jour: Physical Review, Part C, Nuclear Physics, Vol.82, p.064610 (2010) DOI: [10.1103/PhysRevC.82.064610](https://doi.org/10.1103/PhysRevC.82.064610)
g-ray strength function method and its application to ^{107}Pd
Subent:3 2011 Pnt:32 Ene=7.13-13.7MeV Target:Pd-105;Pd-106;Pd-108 Reaction:(g,n)
- 2) **K2293** 2010 A.K.Md.L.Rahman Jour: J. of Nuclear Science and Technology, Tokyo, Vol.47, Issue.7, p.618 (2010) DOI: [10.3327/jnst.47.618](https://doi.org/10.3327/jnst.47.618)
Study on Effective Average (g, n) Cross Section for ^{89}Y , ^{90}Zr , ^{93}Nb , and ^{133}Cs and (g, 3n) Cross Section for ^{99}Tc

- Subent:5 2011(2010) Pnt:5 Ene=32-36MeV Target:Y-89;Zr-90;Nb-93;Tc-99...Cs-133 Reaction:(g,n);(g,3n)
- 3) **K2285** 2009 F.Miyahara Jour: ?CNPR, Vol.26, Issue.S, p.104 (2009)
pi0 photoproduction on deuteron for photon energies from 0.6 to 1.15 GeV
Subent:2 2011(2010) Pnt:1540 Ene=645-1140MeV An=32-148° Target:H-1;H-2 Reaction:(g,pi0);(g,pi0+n)
- 4) **K2197** 1969 T.Shintomi Jour: Journal of the Physical Society of Japan, Vol.26, Issue.3, p.607 (1969) Web: <http://jpsj.ipap.jp/link?JPSJ/26/607>
The Energy and the Angular Distributions of the $O^{16}(g,p)N^{15}$ Reaction
Subent:9 2011(2010) Pnt:63 Ene=23-27MeV An=29-151° Target:O-16 Reaction:(g,p)
- 5) **K2196** 1968 K.Shoda Jour: Journal of the Physical Society of Japan, Vol.25, Issue.3, p.664 (1968) Web: <http://jpsj.ipap.jp/link?JPSJ/25/664>
Photoprotons from ^{23}Na , ^{31}P , ^{32}S , ^{40}Ca , ^{55}Mn and ^{56}Fe
Subent:16 2011(2010) Pnt:201 Ene=15.8-24MeV An=28-151° Target:P-31;S-32;Fe-56 Reaction:(g,p)
- 6) **K2195** 1965 S.Matsumoto Jour: Journal of the Physical Society of Japan, Vol.20, Issue.8, p.1321 (1965) Web: <http://jpsj.ipap.jp/link?JPSJ/20/1321>
Photoreactions in ^{28}Si Nucleus by Monochromatic Gamma-Rays
Subent:5 2011(2010) Pnt:255 Ene=17.5-22.3MeV Target:Si-28 Reaction:(g,a);(g,p)
- 7) **K2191** 1964 A.Masaike Jour: Journal of the Physical Society of Japan, Vol.19, Issue.4, p.427 (1964) Web: <http://jpsj.ipap.jp/link?JPSJ/19/427>
Investigation of nuclear reactions induced by high energy bremsstrahlung
Subent:9 2011 Pnt:57 Ene=145-722MeV Target:C-12;Al-27;Cu-0 Reaction:(g,pip);(g,x)
- 8) **K2294** 1961 K.Shoda Jour: Journal of the Physical Society of Japan, Vol.16, Issue.10, p.1807 (1961) Web: <http://jpsj.ipap.jp/link?JPSJ/16/1807>
Photoprotons from silicon and phosphorus
Subent:11 2011(2010) Pnt:121 Ene=24MeV An=38-142° Target:Si-28;P-31 Reaction:(g,p);(g,x)

3) 2011/05/18 TRANS.F040 /CNPD/ Center of Nuclear Physics Data, Russian Federal Nuclear Center (VNIIEF), Sarov, Russia

- 1) **F0773** 2005 V.Yu.Ugryumov Jour: Yadernaya Fizika, Vol.68, p.17 (2005) DOI: [10.1134/1.1858553](https://doi.org/10.1134/1.1858553)
Energy Dependence of the Total Cross Section for the Reaction of 4He Ions with Silicon Nuclei
Subent:1 2010(2006) Pnt:9 Ene=13.6-101MeV Target:Si-28 Reaction:(a,non)
- 2) **F0766** 2003 M.K.Baktybaev Jour: Yadernaya Fizika, Vol.66, p.1662 (2003) DOI: [10.1134/1.1611566](https://doi.org/10.1134/1.1611566)
Total Reaction Cross Section from the Interaction of 4He Ions with ^{28}Si at 10-30 MeV
Subent:1 2010(2006) Pnt:3 Ene=8.57-24.2MeV Target:Si-28 Reaction:(a,non)
- 3) **F0769** 2002 I.V.Kuznetsov Jour: Yadernaya Fizika, Vol.65, p.1609 (2002) DOI: [10.1134/1.1508688](https://doi.org/10.1134/1.1508688)
Total Cross Sections for $^4He + ^{28}Si$ Reactions Measured at 10-28 MeV/A
Subent:2,old:1 2010(2006) Pnt:9 Ene=52.4-165MeV Target:Si-28 Reaction:(he-6,non);(a,non)
- 4) **F0561** 2001 A.D.Duisebaev Prog: Joint Inst. for Nucl. Res., Dubna Reports, No.2001, p.223 (2001)
Structure of nucleus $90,94Zr$: the joint analysis of alpha-particle elastic and inelastic scattering and integral sections.
Subent:4,old:2 2010(2003) Pnt:221 Ene=40-96MeV An=10-78° Target:Zr-90;Zr-94 Reaction:(a,el);(a,non);(he3,non)
- 5) **F0583** 1989 T.Hasegawa Prog: Univ.Tokyo,Inst.f.Nucl.Study, Annual Report, No.1988, p.5 (1989)
Energy dependence of the Be-9(a,t)B-10 reaction to the ($E_x=1.74$; 0^+ ; $T=1$) state of B-10.
Subent:3,old:1 2011(2003) Pnt:42 Ene=30MeV An=7-105° Target:Be-9 Reaction:(a,t)
- 6) **F0902** 1986 E.A.Romanovskij Jour: Izv. Rossiiskoi Akademii Nauk, Ser.Fiz., Vol.50, p.135 (1986)
Elastic Scattering of Protons at Near Barrier Energies on $^{78,80,82}Se$
Subent:6 2010(2008) Pnt:56 Ene=3.22-6.32MeV An=35-170° Target:Se-78;Se-80;Se-82 Reaction:(p,el);(p,non)
- 7) **F0578** 1984 E.A.Romanovskij Jour: Izv. Rossiiskoi Akademii Nauk, Ser.Fiz., Vol.48, p.977 (1984)
Elastic Scattering of Protons with $E(p) \leq 15$ MeV by ^{24}Mg
Subent:1,old:2 2011(2004) Pnt:7 Ene=4.83-12.6MeV Target:Mg-24 Reaction:(p,non)
- 8) **F1042** 1983 D.Frekers Jour: Nuclear Physics, Section A, Vol.394, p.189 (1983) DOI: [10.1016/0375-9474\(83\)90169-0](https://doi.org/10.1016/0375-9474(83)90169-0)
Identification of Quasimolecular Resonances in Low Energy $a-^{40}Ca$ Scattering and Effects of Compound Nucleus Excitation
Subent:8 2010 Pnt:7638 Ene=4.41-9.12MeV An=50-177° Target:K-39;Ca-40;Ca-41;Ca-48 Reaction:(a,el);(a,p)

- 9) **F1080** 1979 **A.Osman** Jour: Annalen der Physik (Leipzig)., Vol.491, p.64 (1979)
The (d,p) reactions below 3.0 MeV.
Subent:14 2010 Pnt:1222 Ene=1.3-3.06MeV An=15-174° Target:C-12;Na-23;Al-27 Reaction:(d,p)
- 10) **F0579** 1974 **L.V.Dubar** Jour: Yadernaya Fizika, Vol.20, p.624 (1974)
Total Cross Sections for Reactions Induced by 13.6-MeV Deuterons
Subent:10 2010(2004) Pnt:10 Ene=13.2-13.6MeV Target:Al-27;Fe-0;Co-59;Ni-0...Ag-0 Reaction:(d,non)
- 11) **F0455** 1974 **I.Bondouk** Jour: Revue Roumaine de Physique, Vol.19, p.653 (1974)
Elastic Scattering of ^3He by ^9Be and ^{28}Si
Subent:5 2010(1986) Pnt:500 Ene=1.12-2.58MeV An=75-156° Target:Be-9;Si-28;Ag-0 Reaction:(he3,non);(he3,el)
- 12) **F0093** 1969 **B.A.Watson** Jour: Physical Review, Vol.187, p.1351 (1969) DOI: [10.1103/PhysRev.187.1351](https://doi.org/10.1103/PhysRev.187.1351)
Inelastic Scattering of Protons from B^{10} between 5 and 16.5 MeV
Subent:10,old:1 2010(1984) Pnt:6689 Ene=5-16.7MeV An=9-173° Target:B-10 Reaction:(p,inl)
- 13) **F0002** 1968 **H.Ludecke** Jour: Nuclear Physics, Section A, Vol.109, p.676 (1968) DOI: [10.1016/0375-9474\(68\)90038-9](https://doi.org/10.1016/0375-9474(68)90038-9)
The Reactions $^6\text{Li}(^3\text{He},^3\text{He}_0)^6\text{Li}$, $^6\text{Li}(d,d_0)^6\text{Li}$, $^7\text{Li}(d,d_0)^7\text{Li}$ and $^6\text{Li}(^3\text{He},D_{0,1})^7\text{Be}$
Subent:7 2010(1980) Pnt:472 Ene=8-20MeV An=9-167° Target:Li-6;Li-7 Reaction:(d,el);(d,inl);(he3,d);(he3,el)...(he3,non)
- 14) **F1090** 1966 **D.G.Gerke** Jour: Nuclear Physics, Vol.75, p.609 (1966) DOI: [10.1016/0029-5582\(66\)90982-5](https://doi.org/10.1016/0029-5582(66)90982-5)
A DWBA Analysis of $^{12}\text{C}(d,pg)^{13}\text{C}$ with Measured Optical Model Parameters
Subent:11 2010 Pnt:1213 Ene=1.37-4MeV An=10-168° Target:C-12;C-13 Reaction:(d,el);(d,p);(p,el)
- 15) **F1091** 1966 **J.J.Schwartz** Jour: Nuclear Physics, Vol.88, p.539 (1966) DOI: [10.1016/0029-5582\(66\)90413-5](https://doi.org/10.1016/0029-5582(66)90413-5)
Studies of the $^{12}\text{C}(^3\text{He},^3\text{He})^{12}\text{C}$ and $^{12}\text{C}(^3\text{He},a_0)^{11}\text{C}$ Reactions
Subent:9 2010 Pnt:390 Ene=8-10MeV An=2-149° Target:C-12 Reaction:(he3,el);(he3,a)
- 16) **F1089** 1966 **J.Stevens** Jour: Nuclear Physics, Vol.76, p.129 (1966) DOI: [10.1016/0029-5582\(66\)90964-3](https://doi.org/10.1016/0029-5582(66)90964-3)
Elastic and Inelastic Scattering of Protons by ^{18}O
Subent:10 2010 Pnt:616 Ene=7.85-16.3MeV An=16-162° Target:O-18 Reaction:(p,non);(p,el);(p,inl)
- 17) **F1086** 1966 **M.K.Mehta** Jour: Nuclear Physics, Vol.89, p.22 (1966) DOI: [10.1016/0029-5582\(66\)90843-1](https://doi.org/10.1016/0029-5582(66)90843-1)
Reactions Induced by Proton Bombardment of Aluminium
Subent:3 2010 Pnt:1531 Ene=3.53-5.51MeV An=92-152° Target:Al-27 Reaction:(p,a);(p,el);(p,inl)
- 18) **F1085** 1966 **H.R.Saad** Jour: Nuclear Physics, Section A, Vol.84, p.629 (1966) DOI: [10.1016/0029-5582\(66\)91020-0](https://doi.org/10.1016/0029-5582(66)91020-0)
Investigation of the reaction S-32(d,p)S-33 in the deuteron energy range 1.5-2.5 MeV.
Subent:34 2010 Pnt:1419 Ene=1.49-2.51MeV An=0-151° Target:S-32 Reaction:(d,p)
- 19) **F1088** 1965 **D.Cline** Jour: Nuclear Physics, Vol.73, p.33 (1965) DOI: [10.1016/0029-5582\(65\)90150-1](https://doi.org/10.1016/0029-5582(65)90150-1)
The $^{40}\text{Ca}(^3\text{He},a)^{39}\text{Ca}$ and the $^{40}\text{Ca}(^3\text{He},^3\text{He})^{40}\text{Ca}$ Reactions Between 8.00 MeV and 10.25 MeV
Subent:6 2010 Pnt:364 Ene=8-10.3MeV An=7-171° Target:Ca-40 Reaction:(he3,a);(he3,el)
- 20) **F1087** 1964 **S.S.Vasil`ev** Jour: Zhurnal Eksperimental'noi i Teoret. Fiziki, Vol.47, p.1585 (1964)
Study of the (p,p') Reaction with Excitation of 1.65 and 1.83 MeV Levels in Al^{27}
Subent:2 2010 Pnt:78 Ene=6.15-6.71MeV An=46-154° Target:Al-27 Reaction:(p,inl)
- 21) **F1036** 1953 **N.P.Heydenburg** Jour: Physical Review, Vol.92, p.89 (1953) Web: <http://publish.aps.org/abstract/PR/v92/p89>
Energy levels in F-18 from alpha particle reactions in nitrogen.
Subent:4 2010 Pnt:232 Ene=1.51-3.5MeV An=85-157° Target:N-14 Reaction:(a,el);(a,p)

4) 2011/05/18 **TRANS.D076** /India/ Indian Compilation Group: BARC and others, India

- 1) **D6111** 2011 **B.N.Joshi** Jour: Physical Review Letters, Vol.106, p.022501 (2011) DOI: [10.1103/PhysRevLett.106.022501](https://doi.org/10.1103/PhysRevLett.106.022501)

- ▶ Heavy Cluster Knockout Reaction $^{16}\text{O}(^{12}\text{C},2^{12}\text{C})^4\text{He}$ and the Nature of the $^{12}\text{C}-^{12}\text{C}$ Interaction Potential
Subent:1 2011 Pnt:11 Ene=119MeV An=41-45° Target:O-16 Reaction:(c-12,a+6-c-12)
- ▶ 2) **D4238** 2011 **A.Hermanne** Jour: Applied Radiation and Isotopes, Vol.69, p.358 (2011) DOI: [10.1016/j.apradiso.2010.10.013](https://doi.org/10.1016/j.apradiso.2010.10.013)
Limitation of the long-lived ^{121}Te contaminant in production of ^{123}I through the $^{124}\text{Xe}(p,x)$ route
Subent:9 2011 Pnt:161 Ene=9.1-45MeV Target:Xe-124 Reaction:(p,n+p);(p,a);(p,n+a);(p,2n)...(p,x)
- ▶ 3) **D4236** 2011 **A.Hermanne** Jour: Applied Radiation and Isotopes, Vol.69, p.475 (2011) DOI: [10.1016/j.apradiso.2010.10.003](https://doi.org/10.1016/j.apradiso.2010.10.003)
High yield production of the medical radioisotope ^{167}Tm by the $^{167}\text{Er}(d,2n)$ reaction
Subent:5 2011 Pnt:90 Ene=9.7-20.4MeV Target:Er-166;Er-167;Er-168 Reaction:(d,n);(d,3n);(d,2n)
- ▶ 4) **D4241** 2010 **Gy.Gyurky** Jour: Jour. of Physics, Part G (Nucl.and Part.Phys.), Vol.37, p.115201 (2010) DOI: [10.1088/0954-3899/37/11/115201](https://doi.org/10.1088/0954-3899/37/11/115201)
Alpha-induced reaction cross section measurements on ^{151}Eu for the astrophysical gamma-process
Subent:4 2011 Pnt:74 Ene=11.6-17.5MeV Target:Eu-151 Reaction:(a,g);(a,n)
- ▶ 5) **D4239** 2010 **I.Spahn** Jour: Radiochimica Acta, Vol.98, p.749 (2010) DOI: [10.1524/ract.2010.1781](https://doi.org/10.1524/ract.2010.1781)
New cross section measurements for the production of the Auger electron emitters ^{77}Br and $^{80\text{m}}\text{Br}$
Subent:4 2011 Pnt:82 Ene=7.4-84.2MeV Target:Se-77;Se-78;Se-80 Reaction:(p,n);(p,2n);(p,4n)
- ▶ 6) **D4237** 2010 **N.P.Van Der Meulen** Jour: Journal of Radioanalytical and Nuclear Chemistry, Vol.285, p.491 (2010) DOI: [10.1007/s10967-010-0613-6](https://doi.org/10.1007/s10967-010-0613-6)
The isolation of ^{133}Ba produced by proton-induced reactions on Cs using cation exchange chromatography
Subent:3 2011 Pnt:12 Ene=6.11-17.1MeV Target:Cs-133 Reaction:(p,n)
- ▶ 7) **D6110** 2010 **E.Prasad** Jour: Physical Review, Part C, Nuclear Physics, Vol.81, p.054608 (2010) DOI: [10.1103/PhysRevC.81.054608](https://doi.org/10.1103/PhysRevC.81.054608)
Conclusive evidence of quasifission in reactions forming the ^{210}Rn compound nucleus
Subent:17 2011 Pnt:1700 Ene=74.7-125MeV Target:W-186;Pt-194 Reaction:(o-16,f);(mg-24,f)
- 8) **D6108** 2010 **L.S.Danu** Jour: Physical Review, Part C, Nuclear Physics, Vol.81, p.014311 (2010) DOI: [10.1103/PhysRevC.81.014311](https://doi.org/10.1103/PhysRevC.81.014311)
Fine structure dips in the fission fragment mass distribution for the $^{238}\text{U}(^{18}\text{O},f)$ reaction
Subent:8 2011(2010) Pnt:99 Ene=100MeV Target:U-238 Reaction:(o-18,f)
- 9) **D0008** 1972 **D.K.Mcdaniels** Jour: Physical Review, Part C, Nuclear Physics, Vol.6, p.1593 (1972) DOI: [10.1103/PhysRevC.6.1593](https://doi.org/10.1103/PhysRevC.6.1593)
Angular Distributions and Absolute Cross Sections for the $\text{T}(p,n)^3\text{He}$ Neutron Source Reaction
Subent:3 2011(1979) Pnt:102 Ene=4-15.5MeV An=0-110° Target:H-3 Reaction:(d,n);(p,n)

5) 2011/05/18 TRANS.C105 /NNDC/ US National Nuclear Data Center, Brookhaven, USA

- 1) **C1713** 2009 **R.Tripathi** Jour: Physical Review, Part C, Nuclear Physics, Vol.79, p.064607 (2009) DOI: [10.1103/PhysRevC.79.064607](https://doi.org/10.1103/PhysRevC.79.064607)
Fission fragment angular distributions in the reactions $^{16}\text{O}+^{188}\text{Os}$ and $^{28}\text{Si}+^{176}\text{Yb}$
Subent:2,old:1 2011(2009) Pnt:88 Ene=84-155MeV Target:Yb-176;Os-188 Reaction:(o-16,f);(si-28,f)
- 2) **C1743** 2008 **N.Anantaraman** Jour: Physical Review, Part C, Nuclear Physics, Vol.78, p.065803 (2008) DOI: [10.1103/PhysRevC.78.065803](https://doi.org/10.1103/PhysRevC.78.065803)
Electron capture strength for $^{60,62}\text{Ni}$ and $^{58,60,62,64}\text{Ni}(p,n)^{58,60,62,64}\text{Cu}$ reactions at 134.3 MeV
Subent:4 2011(2010) Pnt:65 Ene=134MeV An=0-8° Target:Ni-60;Ni-62 Reaction:(p,n)
- 3) **C1157** 1999 **D.H.Youngblood** Jour: Physical Review, Part C, Nuclear Physics, Vol.60, p.067302 (1999) DOI: [10.1103/PhysRevC.60.067302](https://doi.org/10.1103/PhysRevC.60.067302)
Splitting of the Giant Monopole and Quadrupole Resonances in ^{154}Sm
Subent:1 2011(2005) Pnt:28 Ene=240MeV An=0-6° Target:Sm-154 Reaction:(a,inl)
- 4) **C1188** 1982 **L.L.Ames** Jour: Physical Review, Part C, Nuclear Physics, Vol.25, p.729 (1982) DOI: [10.1103/PhysRevC.25.729](https://doi.org/10.1103/PhysRevC.25.729)
Natural Parity Levels in ^{16}O
Subent:65 2011(2005) Pnt:46865 Ene=10.4-19.7MeV An=30-170° Target:C-12 Reaction:(a,p);(a,el);(a,inl)
- 5) **C0925** 1973 **F.E.Bertrand** Jour: Physical Review, Part C, Nuclear Physics, Vol.8, p.1045 (1973) DOI: [10.1103/PhysRevC.8.1045](https://doi.org/10.1103/PhysRevC.8.1045)
Complete Hydrogen and Helium Particle Spectra from 30- to 60-MeV Proton Bombardment of Nuclei with $A = 12$ to 209 and Comparison with the Intranuclear Cascade Model
Subent:61,old:10 2011(2003) Pnt:1411 Ene=29-69MeV An=11-169° Target:C-12;O-16 Reaction:(p,d);(p,t);(p,he3);(p,el)...(p,x)

6) **C0009** 1973 D.K.Mcdaniels Jour: Physical Review, Part C, Nuclear Physics, Vol.7, p.882 (1973) DOI: [10.1103/PhysRevC.7.882](https://doi.org/10.1103/PhysRevC.7.882)

Angular Distributions and Absolute Cross Sections for the $T(d,n)^4\text{He}$ Neutron-Source Reaction

Subent:9 2011(1978) Pnt:295 Ene=5-20MeV An=0-140° Target:H-3 Reaction:(d,n)

7) **C0751** 1969 J.John Jour: Physical Review, Vol.181, p.1455 (1969) DOI: [10.1103/PhysRev.181.1455](https://doi.org/10.1103/PhysRev.181.1455)

Phase-Shift Analysis of $^{16}\text{O}(a,a)^{16}\text{O}$ Scattering from 5 to 10 MeV

Subent:14,old:1 2011(2000) Pnt:6233 Ene=5-12.6MeV An=54-177° Target:O-16 Reaction:(a,el)

8) **C1824** 1956 L.E.Bailey Rept: U.C., Lawrence Rad.Lab. (Berkeley and Livermore), No.3334 (1956)

Angle and energy distributions of charged particles from the high-energy nuclear bombardment of various elements

Subent:87 2011 Pnt:1111 Ene=190-205MeV An=0-180° Target:C-12;Al-27;Ni-0;Ag-0...Au-197 Reaction:(p,x);(a,x)

9) **C1031** 1953 J.R.Cameron Jour: Physical Review, Vol.90, p.839 (1953) DOI: [10.1103/PhysRev.90.839](https://doi.org/10.1103/PhysRev.90.839)

Elastic Scattering of Alpha-Particles by Oxygen

Subent:2 2011(2004) Pnt:841 Ene=0.934-3.93MeV An=90-168° Target:O-16 Reaction:(a,el)

6) 2011/03/23 TRANS.D075 /NDS/ IAEA Nuclear Data Section, Vienna, Austria

1) **D0587** 2011 A.F.Gurbich Jour: Nucl. Instrum. Methods in Physics Res., Sect.B, Vol.269, p.40 (2011) DOI: [10.1016/j.nimb.2010.10.007](https://doi.org/10.1016/j.nimb.2010.10.007)

Measurements and evaluation of the cross-section for helium elastic scattering from nitrogen

Subent:2 2011(2009) Pnt:290 Ene=2.54-4.95MeV An=118-165° Target:N-14 Reaction:(a,0);(a,el);(a,tot)

2) **D0620** 2010 W.Krolas Jour: Nuclear Physics, Section A, Vol.832, p.170 (2010) DOI: [10.1016/j.nuclphysa.2009.10.159](https://doi.org/10.1016/j.nuclphysa.2009.10.159)

Dynamical deformation of nuclei in deep-inelastic collisions: A gammacoincidence study of $^{130}\text{Te} + 275 \text{ MeV } ^{64}\text{Ni}$ and $^{208}\text{Pb} + 345 \text{ MeV } ^{58}\text{Ni}$ heavy ion reactions

Subent:9 2011(2010) Pnt:879 Ene=275-345MeV Target:Te-130;Pb-208 Reaction:(ni-64,x);(ni-58,x)

3) **D0635** 2003 W.Krolas Jour: Nuclear Physics, Section A, Vol.724, p.289 (2003) DOI: [10.1016/S0375-9474\(03\)01544-6](https://doi.org/10.1016/S0375-9474(03)01544-6)

Gamma coincidence study of $^{208}\text{Pb} + 350 \text{ MeV } ^{64}\text{Ni}$ collisions

Subent:4 2011(2010) Pnt:583 Ene=350MeV Target:Pb-208 Reaction:(ni-64,x)

4) **D0579** 2002 A.Letourneau Jour: Nuclear Physics, Section A, Vol.712, p.133 (2002) DOI: [10.1016/S0375-9474\(02\)01133-8](https://doi.org/10.1016/S0375-9474(02)01133-8)

Composite-particle emission in the reaction $p + \text{Au}$ at 2.5 GeV

Subent:1,old:16 2010(2009) Pnt:64 Ene=2500MeV An=30-150° Target:Au-197 Reaction:(p,x)

5) **D0640** 1997 I.Leya Thesis: Leya (1997)

Modelling of the interactions between galactic cosmic rays with stone and iron meteorites - Thin-target irradiations and thick-target experiments

Subent:36 2010 Pnt:546 Ene=1600MeV Target:C-0;N-0;O-0;Mg-0...Ba-0 Reaction:(p,x)

6) **D4041** 1988 F.Tarkanyi Jour: Radiochimica Acta, Vol.43, p.185 (1988)

Excitation Functions of ^3He -Particle Induced Nuclear Reactions on Enriched ^{82}Kr and ^{83}Kr

Subent:10 2010(1995) Pnt:152 Ene=10.3-33.3MeV Target:Kr-82;Kr-83 Reaction:(he3,2n);(he3,x);(he3,3n);(he3,4n)

7) **D0032** 1962 S.M.Austin Jour: Bulletin of the American Physical Society, Vol.7, p.269 (1962)

Angular Distributions of the $\text{Li}^7(p,n)\text{Be}^7$ Neutrons

Subent:1,old:2 2010(1983) Pnt:20 Ene=2-2.86MeV An=0-130° Target:Li-7 Reaction:(p,n)

7) 2011/03/23 TRANS.V028 /NDS/ IAEA Nuclear Data Section, Vienna, Austria

1) **V0045** 1988 N.E.Holden Jour: Nuclear Science and Engineering, Vol.98, p.174 (1988)

Prompt Neutron Emission Multiplicity Distribution and Average Values (Nubar) at 2200 m/s for the Fissile Nuclides

Subent:13 2011(1988) Pnt:41 Ene=0-0.0253eV Target:U-233;U-235;Pu-239;Pu-241...Cf-252 Reaction:(0,f);(n,f)

2) **V0044** 1987 Yu Baosheng Rept: China Nucl. Information Center Reports, No.00071 (1987)

Evaluation of tritium production cross-section for neutron-interaction with Li-7

Subent:1 2011(1988) Pnt:29 Ene=2-16MeV Target:Li-7 Reaction:(n,n+t)

3) **V0043** 1987 T.B.Ryves Priv.Comm: Ryves (1987)

A simultaneous evaluation of some important cross sections at 14.7 MeV

- Subent:12 2011(1987) Pnt:12 Ene=14.7MeV Target:H-1;Al-27;S-32;Fe-56...U-238 Reaction:(n,el);(n,a);(n,p);(n,2n)...(n,f)
- 4) **V0041** 1984 Lu Han-Lin Jour: Chinese J.of Nuclear Physics (Beijing)., Vol.6, Issue.1, p.76 (1984)
Cross section for Nb-93(n,2n)Nb-92m reaction
Subent:1 2011(1984) Pnt:15 Ene=9-19MeV Target:Nb-93 Reaction:(n,2n)
- 5) **V0030** 1984 M.Herman Priv.Comm: Marcinkowski (1984)
Calculation of photon production cross sections in inelastic scatterings on Mo isotopes
Subent:14 2011(1984) Pnt:190 Ene=14.5MeV Target:Mo-92;Mo-94;Mo-95;Mo-96...Mo-100 Reaction:(n,x);(n,inl)
- 6) **V0033** 1982 Gu Fu-Hua Rept: Inst. of Atomic Energy, Beijing Reports, No.81195 (1982)
Evaluation of Am-241(n,f) cross-sections - Energy range between 0.001 and 20 MeV
Subent:1 2011(1984) Pnt:157 Ene=1.2keV-20MeV Target:Am-241 Reaction:(n,f)
- 7) **V0028** 1981 P.J.Dimbylow Conf: 4.Symp.on Neutron Dosimetry, Munich-Neuherberg 1981, p.III-1 (1981)
Total kerma values for elements of biomedical importance from 20 to 60 MeV
Subent:10 2011(1981) Pnt:114 Ene=20-60.7MeV Target:H-CXX;C-0;N-0;O-0...Ca-0 Reaction:(n,non)
- 8) **V0026** 1981 M.J.Abbate Priv.Comm: Abbate (1981)
Total neutron cross section of benzene (from 0.002 to 2 eV neutron energy)
Subent:1 2011(1981) Pnt:87 Ene=2⁻³-2eV Target:H-BNZ Reaction:(n,tot)
- 9) **V0023** 1981 S.K.Rathi Jour: Jour. of Physics, Part G (Nucl.and Part.Phys.), Vol.7, p.53 (1981) DOI: [10.1088/0305-4616/7/1/010](https://doi.org/10.1088/0305-4616/7/1/010)
P-Wave Neutron Strength Functions
Subent:7 2011(1981) Pnt:7 Ene=24keV Target:Mo-92;Mo-94;Mo-98;Mo-100...Tl-203 Reaction:(n,el)
- 10) **V0027** 1980 P.Dimbylow Jour: Physics in Medicine and Biology, Vol.25, Issue.4, p.637 (1980)
Neutron cross-sections for elements of biomedical importance from 20 to 50 MeV
Subent:91 2011(1981) Pnt:955 Ene=20-60.7MeV Target:C-12;N-14;O-16;Mg-0...Ca-0 Reaction:(n,el);(n,d+n);(n,p+2n);(n,n+a+n)...(n,d+p+n)
- 11) **V0039** 1979 Shi Zhao-Min Rept: Inst. of Atomic Energy, Beijing Reports, No.77123 (1979)
Review of experimental data of Pu-239 fast neutron scattering cross-sections
Subent:4 2011(1984) Pnt:275 Ene=0.19-18.4MeV Target:Pu-239 Reaction:(n,inl);(n,el);(n,non)
- 12) **V0014** 1979 S.Tagesen Book: Physik Daten/Physics Data, Series, Karlsruhe, p.13-1 (1979)
Evaluation of the cross-sections for the reactions Mg-24(n,p)Na-24, Zn-64(n,p)Cu-64, Cu-63(n,2n)Cu-62 and Zr-90(n,2n)Zr-89
Subent:4 2011(1979) Pnt:109 Ene=1.12-20.5MeV Target:Mg-24;Cu-63;Zn-64;Zr-90 Reaction:(n,p);(n,2n)
- 13) **V0038** 1978 Cao Zhong Rept: Inst. of Atomic Energy, Beijing Reports, No.77105 (1978)
Review of experimental data of U-235(n,g) cross-sections - E(n)=1 keV to 14 MeV
Subent:1 2011(1984) Pnt:67 Ene=0.9keV-14MeV Target:U-235 Reaction:(n,g)
- 14) **V0036** 1978 Ding Da-Zhao Rept: Inst. of Atomic Energy, Beijing Reports, No.77106 (1978)
Review of U-238 radiative capture cross-sections - E(n)=1 keV to 20 MeV
Subent:2 2011(1984) Pnt:67 Ene=1keV-20MeV Target:U-238 Reaction:(n,g)
- 15) **V0037** 1978 Ye Chun-Tang Rept: Inst. of Atomic Energy, Beijing Reports, No.77062 (1978)
Review of U-238(n,f) cross-sections
Subent:1 2011(1984) Pnt:77 Ene=0.51-20MeV Target:U-235;U-238 Reaction:(n,f)
- 16) **V0031** 1978 Gu Fu-Hua Rept: Inst. of Atomic Energy, Beijing Reports, No.77065 (1978)
Evaluation of Pu-238(n,f) cross-sections - Energy range between 0.001 and 20 MeV
Subent:1 2011(1984) Pnt:95 Ene=1keV-17MeV Target:Pu-238 Reaction:(n,f)
- 17) **V0032** 1978 Lian Qi-Chang Rept: Inst. of Atomic Energy, Beijing Reports, No.77111 (1978)
Evaluation of alpha values of Pu-239 in the neutron energies between 1 keV and 1 MeV
Subent:2 2011(1984) Pnt:119 Ene=1keV Target:Pu-239 Reaction:(n,abs)
- 18) **V0022** 1978 Zhang Huan-Qiao Rept: Inst. of Atomic Energy, Beijing Reports, No.76041 (1978)
Recommendation of nu value of U-235
Subent:2 2011(1980) Pnt:242 Ene=0.0253eV-15MeV Target:U-235 Reaction:(n,f)
- 19) **V0021** 1978 Zhou You-Pu Rept: Inst. of Atomic Energy, Beijing Reports, No.77091 (1978)
Evaluation of U-238(n,2n) and (n,3n) cross-sections