**Nuclear Data Section**

**International Atomic Energy Agency**

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**Memo CP-D/947**

**Date:** 16 January 2018

**To:** Distribution

**From:** V. Semkova, N. Otsuka, L. Vrapcenjak

**Subject: Alpha-induced reaction articles in NSR/CINDA but not in EXFOR**

**Reference:** WP2017-17, CP-D/937

The articles summarized in WP2017-17 [1] were further analysed for alpha-induced reactions, and we concluded that the following 411 articles are for revision of existing entries or for creation of new EXFOR entries. They will be registered in the EXFOR Article Allocation List (<https://www-nds.iaea.org/nrdc/alloc/>) for your compilation. Centres are suggested to check by themselves if each article is for EXFOR compilation.

There are about 1600 EXFOR entries providing alpha-induced reaction data. Namely about 20% of alpha-induced reaction experimental works are missing in EXFOR if NSR is complete. Our assessment gives about 3% for a similar estimation for proton-induced reactions (~120 articles in CP-D/937, ~4300 entries in EXFOR).

In order to avoid creation of a new EXFOR entry from an experimental work existing in EXFOR, the list was finally checked against the EXFOR Master by using *target, reaction, quantity and* ***institute of facility***. Use of the institute codes under INSTITUTE makes this kind of assessment less efficient, and we would like to remind you to record the institute of facility under FACILITY in your EXFOR entry whenever it is known.

Copies of almost all articles are available from one of us (LV) on your request.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Authors** | **Reference** | **Q.** | **Laboratory** | **Remarks** | **Entry #** |
| A.B.McDonald+ | J,NP/A,273,464,1976 | DAP | 1CANCRC |  |  |
| B.Frois+ | J,PR/C,8,2132,1973 | DAA | 1CANLUQ |  |  |
| D.G.Burke+ | J,NP/A,193,271,1972 | DAP | 1CANMCM |  |  |
| Z.Preibisz+ | J,NP/A,201,486,1973 | DAP | 1CANMCM |  |  |
| M.R.Macphail+ | J,NP/A,237,285,1975 | DAP | 1CANMCM |  |  |
| O.Straume+ | J,NP/A,266,390,1976 | DAP | 1CANMCM |  |  |
| D.J.Martin+ | J,PR/C,13,1117,1976 | CSP | 1CANMCM |  |  |
| D.G.Burke+ | J,PL/B,78,48,1978 | DAP | 1CANMCM |  |  |
| C.W.Cheng+ | J,JP/G,5,1261,1979 | CS | 1CANMCM | B0140 must be deleted when the 1979 article is compiled. |  |
| P.E.Garrett+ | J,JP/G,19,1021,1993 | DAP | 1CANMCM | Preliminary data of F0259.005 tabulated | F0259 |
| H.T.Fortune+ | J,PL/B,30,175,1969 | DAP | 1USAANL |  |  |
| P.Wong+ | J,NP/A,151,549,1970 | CS | 1USAANL |  |  |
| B.Zeidman+ | J,PR/C,2,1612,1970 | DAP | 1USAANL |  |  |
| J.C.Legg+ | J,PR/C,2,1733,1970 | DAP | 1USAANL |  |  |
| D.M.Montgomery+ | J,PR/C,2,595,1970 | CS | 1USAANL |  |  |
| T.C.Roginski+ | J,PR/C,4,1361,1971 | CS | 1USAANL |  |  |
| K.L.Wolf+ | J,PL/B,38,405,1972 | CS | 1USAANL |  |  |
| A.Richter+ | J,PR/C,5,814,1972 | DAP | 1USAANL |  |  |
| K.Katori+ | J,PR/C,9,360,1974 | DAP | 1USAANL |  |  |
| Z.Fraenkel+ | J,PR/C,12,1809,1975 | NU | 1USAANL |  |  |
| G.Hardie+ | J,PR/C,13,1874,1976 | DAP | 1USAANL |  |  |
| J.F.Tonn+ | J,PR/C,16,2065,1977 | DAP | 1USAANL |  |  |
| I.Ahmad+ | J,PR/C,17,2163,1978 | DAP | 1USAANL |  |  |
| L.Meyer-Schuetzmeister+ | J,PR/C,17,56,1978 | DAP | 1USAANL |  |  |
| I.Ahmad+ | J,PR/C,20,290,1979 | DAP | 1USAANL |  |  |
| A.M.Sandorfi+ | J,PRL,46,884,1981 | DAP | 1USABNL |  |  |
| D.S.Burnett+ | J,PR,134,B952,1964 | CS | 1USABRK |  |  |
| B.G.Harvey+ | J,NP,70,305,1965 | DAP | 1USABRK |  |  |
| D.J.Horen+ | J,NP,72,97,1965 | DAP | 1USABRK | F0968 must be deleted when the 1965 article is compiled. |  |
| E.F.Neuzil+ | J,JIN,30,1151,1968 | FY | 1USABRK |  |  |
| G.Chenevert+ | J,NP/A,122,481,1968 | DAE | 1USABRK |  |  |
| D.L.Hendrie+ | J,PL/B,26,127,1968 | DA | 1USABRK |  |  |
| R.L.Kiefer+ | J,PR,173,1202,1968 | CSP | 1USABRK |  |  |
| M.S.Zisman+ | J,PR/C,4,1809,1971 | DAP | 1USABRK |  |  |
| G.Chenevert+ | J,PRL,27,434,1971 | DAE | 1USABRK |  |  |
| M.S.Zisman+ | J,PR/C,5,1031,1972 | DAP | 1USABRK |  |  |
| R.Stock+ | J,PR/C,6,1226,1972 | DA | 1USABRK |  |  |
| G.J.Wozniak+ | J,PRL,31,607,1973 | DAP | 1USABRK |  |  |
| J.D.Sherman+ | J,PR/C,13,20,1976 | DAA | 1USABRK |  |  |
| G.J.Wozniak+ | J,PR/C,14,815,1976 | DAP | 1USABRK |  |  |
| R.Jahn+ | J,PRL,37,812,1976 | DAP | 1USABRK |  |  |
| J.C.Fong+ | J,NP/A,262,365,1976 | DT | 1USABRK |  |  |
| R.Jahn+ | J,PR/C,18,9,1978 | DAP | 1USABRK |  |  |
| F.D.Becchetti+ | J,PR/C,21,444,1980 | DAP | 1USABRK | A secondary reference | C1317 |
| K.X.Jing+ | J,PL/B,518,221,2001 | CS | 1USABRK | He3 induced reaction (fission) |  |
| Y.S.Park+ | J,PR/C,7,445,1973 | DA | 1USABRL |  |  |
| R.G.Couch+ | J,NP/A,175,300,1971 | CS | 1USACAL |  |  |
| Y.X.Qiu+ | J,NIM/B,117,151,1996 | DA | 1USACAL |  |  |
| R.J.Peterson+ | J,PR/C,4,278,1971 | DAP | 1USACLU |  |  |
| R.J.Peterson+ | J,PR/C,6,829,1972 | DA | 1USACLU |  |  |
| R.J.Peterson+ | J,NP/A,218,109,1974 | DA | 1USACLU |  |  |
| E.R.Flynn+ | J,PR/C,16,139,1977 | DAP | 1USACLU |  |  |
| M.L.Munger+ | J,NP/A,303,199,1978 | DAP | 1USACLU |  |  |
| P.A.Smith+ | J,PR/C,19,1767,1979 | DAP | 1USACLU |  |  |
| J.J.Hamill+ | J,NP/A,408,21,1983 | DAP | 1USACLU |  |  |
| F.E.Cecil+ | J,PL/B,56,335,1975 | DAP | 1USACLU |  |  |
| D.G.McCauley+ | J,PR/C,4,475,1971 | CSP | 1USADAV |  |  |
| W.J.Wallace+ | J,PR/C,2,1738,1970 | DA | 1USAFSU |  |  |
| K.W.Kemper+ | J,PR/C,6,2090,1972 | DA | 1USAFSU |  |  |
| B.Yaramis+ | J,NP/A,215,197,1973 | DA | 1USAFSU |  |  |
| K.W.Kemper+ | J,NP/A,222,173,1974 | DAP | 1USAFSU |  |  |
| D.R.James+ | J,NP/A**,**227,349,1974 | DA | 1USAFSU |  |  |
| M.B.Greenfield+ | J,PR/C,10,564,1974 | DAP | 1USAFSU |  |  |
| G.M.Hudson+ | J,PR/C,9,1521,1974 | DA | 1USAFSU |  |  |
| A.W.Obst+ | J,PR/C,9,1643,1974 | DAP | 1USAFSU |  |  |
| A.D.Frawley+ | J,NP/A,363,280,1981 | DAP | 1USAFSU |  |  |
| A.D.Frawley+ | J,PR/C,25,2935,1982 | DA | 1USAFSU |  |  |
| F.E.Bertrand+ | J,PR/C,22,1832,1980 | DAP | 1USAINU |  |  |
| A.Saha+ | J,PL/B,114,419,1982 | DAP | 1USAINU |  |  |
| B.D.Wilkins+ | J,PR/C,30,1228,1984 | KE | 1USAINU |  |  |
| A.Saha+ | J,PRL,52,1876,1984 | DAP | 1USAINU |  |  |
| R.J.Peterson+ | J,PR/C,33,31,1986 | DAP | 1USAINU |  |  |
| P.R.Andrews+ | J,NP/A,468,43,1987 | DAP | 1USAINU |  |  |
| R.J.Peterson+ | J,PR/C,35,495,1987 | DAP | 1USAINU |  |  |
| S.L.Chen+ | J,PR/C,54,R2114,1996 | CS | 1USAINU |  |  |
| J.Zhang+ | J,PR/C,56,1918,1997 | DA | 1USAINU |  |  |
| P.R.Andrews+ | J,NP/A,459,317,1986 | DAP | 1USAINU |  |  |
| I.Ahmad+ | J,NP/A,646,175,1999 | DAP | 1USAINU |  |  |
| G.R.Bethune+ | J,PR/C,6,1087,1972 | CS | 1USALAS |  |  |
| M.Bozoian+ | J,NIM/B,51,311,1990 | DA | 1USALAS |  |  |
| J.R.Priest+ | J,PR,182,1121,1969 | DAP | 1USALRC |  |  |
| J.S.Vincent+ | J,NP/A,143,121,1970 | DA | 1USALRC |  |  |
| N.Baron+ | J,PR/C,4,1159,1971 | DA | 1USALRC |  |  |
| L.B.Geesaman+ | J,NP,88,177,1966 | DAE | 1USALRL |  |  |
| J.Benveniste+ | J,PR,174,1357,1968 | DAP | 1USALRL |  |  |
| J.Benveniste+ | J,PR/C,2,500,1970 | DAE | 1USALRL | Not suitable for digitization. |  |
| S.M.Grimes+ | J,PR/C,3,645,1971 | DAP | 1USALRL |  |  |
| S.M.Grimes+ | J,PR/C,10,2373,1974 | DAE | 1USALRL |  |  |
| L.G.Sanin+ | J,NP/A,245,317,1975 | DA | 1USALTI |  |  |
| F.T.Baker+ | J,PL/B,32,47,1970 | DAP | 1USAMHG |  |  |
| H.W.Baer+ | J,PR/C,3,1398,1971 | DAP | 1USAMHG |  |  |
| F.T.Baker+ | J,PR/C,5,182,1972 | DAP | 1USAMHG |  |  |
| J.Jaenecke+ | J,PR/C,11,2114,1975 | CS | 1USAMHG |  |  |
| A.VanderMolen+ | J,PR/C,11,734,1975 | DAP | 1USAMHG |  |  |
| A.R.Barnett+ | J,PR,186,1205,1969 | CS | 1USAMIN |  |  |
| J,Lowe+ | J,NP/A,187,323,1972 | DA | 1USAMIN |  |  |
| P.Mailandt+ | J,PRL,28,1075,1972 | DA | 1USAMIN | Preliminary result of J,PR/C,8,2189,1973. |  |
| M.F.Thomas+ | J,JP/A,6,1763,1973 | DAP | 1USAMIN |  |  |
| T.P.Krick+ | J,NP/A,216,549,1973 | DAP | 1USAMIN |  |  |
| P.Mailandt+ | J,PR/C,8,2189,1973 | DA | 1USAMIN | Preliminary result in J,PRL,28,1075,1972. |  |
| W.S.Chien+ | J,PR/C,10,1767,1974 | DA | 1USAMIN |  |  |
| E.J.Martens+ | J,NP/A,117,241,1968 | DA | 1USAMIT |  |  |
| N.Alpert+ | J,PR/C,2,974,1970 | DAP | 1USAMIT |  |  |
| N.Alpert+ | J,PR/C,4,1230,1971 | DA | 1USAMIT |  |  |
| P.E.Frisbee+ | J,NP/A,191,658,1972 | DA | 1USAMRY |  |  |
| V.E.Viola+ | J,PR/C,10,2416,1974 | CS | 1USAMRY |  |  |
| A.Nadasen+ | J,PR/C,18,2792,1978 | DA | 1USAMRY |  |  |
| M.D.Glascock+ | J,NP/A,329,73,1979 | CS | 1USAMRY |  |  |
| M.D.Glascock+ | J,PR/C,19,1577,1979 | CSP | 1USAMRY |  |  |
| W.G.Meyer+ | J,PR/C,20,1716,1979 | CS | 1USAMRY |  |  |
| R.Perry+ | J,PR/C,24,1471,1981 | DA | 1USAMRY |  |  |
| A.Goekmen+ | J,PR/C,29,1595,1984 | DA | 1USAMRY |  |  |
| H.Nann+ | J,PL/B,60,32,1975 | DAP | 1USAMSU | Data except for 39K and 41K finalized in T0272. |  |
| H.Nann+ | J,PR/C,12,1524,1975 | DAP | 1USAMSU | See also J,PL/B,60,32,1975 for Ex=5.22 MeV. |  |
| H.T.Fortune+ | J,PR/C,12,359,1975 | DAP | 1USAMSU |  |  |
| R.G.Markham+ | J,PR/C,14,2037,1976 | DAP | 1USAMSU |  |  |
| H.Nann+ | J,NP/A,292,205,1977 | DAP | 1USAMSU |  |  |
| H.T.Fortune+ | J,NP/A,301,441,1978 | DAP | 1USAMSU |  |  |
| P.Decowski+ | J,PL/B,101,147,1981 | DAP | 1USAMSU |  |  |
| S.M.Austin+ | J,NP/A,688,70c,2001 | CS | 1USAMSU | Preliminary report | C0959 |
| L.Buchmann+ | J,NP/A,688,259c,2001 | DA | 1USANOT | Preliminary report | C1461 |
| M.Heil+ | J,NP/A,688,499c,2001 | CS | 1USANOT | Preliminary report | D0513 |
| V.E.Viola+ | J,NP/A,174,321,1971 | KE | 1USANRL |  |  |
| D.G.Madland+ | J,PR/C,9,1002,1974 | DA | 1USANRL |  |  |
| E.E.Gross+ | J,PR,178,1584,1969 | DAP | 1USAORL |  |  |
| C.R.Bingham+ | J,PR,180,1197,1969 | DA | 1USAORL |  |  |
| H.B.Pugh+ | J,PRL,22,408,1969 | D3A | 1USAORL |  |  |
| P.P.Singh+ | J,PRL,23,1124,1969 | DA | 1USAORL |  |  |
| C.R.Bingham+ | J,PR/C,1,244,1970 | DAP | 1USAORL |  |  |
| R.J.Jaszczak+ | J,PR/C,2,2452,1970 | CS | 1USAORL | See also J,PR/C,2,63,1970. |  |
| R.J.Jaszczak+ | J,PR/C,2,63,1970 | CS | 1USAORL | See also J,PR/C,2,2452,1970. |  |
| E.E.Gross+ | J,PRL,24,473,1970 | DA | 1USAORL |  |  |
| P.P.Singh+ | J,NP/A,163,289,1971 | DAP | 1USAORL |  |  |
| W.R.Coker+ | J,NP/A,168,307,1971 | DA | 1USAORL |  |  |
| S.T.Thornton+ | J,PR/C,3,1065,1971 | DAP | 1USAORL |  |  |
| M.B.Lewis+ | J,PR/C,3,2027,1971 | DAP | 1USAORL |  |  |
| M.L.Halbert+ | J,PRL,26,1124,1971 | DA | 1USAORL |  |  |
| E.E.Gross+ | J,PR/C,5,602,1972 | DA | 1USAORL |  |  |
| R.E.Goans+ | J,PR/C,5,914,1972 | DAP | 1USAORL |  |  |
| M.L.Halbert+ | J,PR/C,8,1621,1973 | DAP | 1USAORL |  |  |
| C.E.Bemis+ | J,PR/C,8,1934,1973 | DAP | 1USAORL |  |  |
| C.R.Bingham+ | J,PR/C,8,729,1973 | DAP | 1USAORL |  |  |
| M.B.Lewis+ | J,PR/C,10,2441,1974 | DAP | 1USAORL |  |  |
| D.Elmore+ | J,PR/C,14,583,1976 | DAP | 1USAORL |  |  |
| D.G.Sarantites+ | J,PR/C,17,601,1978 | CSP | 1USAORL |  |  |
| W.L.Baker+ | J,PR/C,3,494,1971 | POL | 1USAOSU |  |  |
| C.E.Busch+ | J,PR/C,8,848,1973 | DAP | 1USAOSU |  |  |
| L.R.Medsker+ | J,NP/A,292,61,1977 | DAP | 1USAPEN |  |  |
| W.W.Daehnick+ | J,PR/C,15,594,1977 | DAP | 1USAPTN |  |  |
| W.W.Daehnick+ | J,PR/C,23,1906,1981 | DAP | 1USAPTN | A part of data measured by itinerants from 1USAPUP at 2GERMPH. |  |
| W.W.Daehnick+ | J,PR/C,23,1906,1981 | DAP | 1USAPTN | A part of data measured by itinerants from 1USAPTN at 2GERMPH. |  |
| M.J.Spisak+ | J,PR/C,29,2088,1984 | DAP | 1USAPTN |  |  |
| Z.-J.Cao+ | J,PR/C,35,875,1987 | DAP | 1USAPTN |  |  |
| J.X.Saladin+ | J,PR,186,1241,1969 | DAP | 1USAPUP | R=sigma(2+)/sigma(elastic) |  |
| R.J.Pryor+ | J,PR/C,1,1573,1970 | DAP | 1USAPUP | R=sigma(2+)/sigma(elastic) |  |
| A.J.Kennedy+ | J,PR/C,5,500,1972 | DAE | 1USAPUR |  |  |
| J.Wiley+ | J,NP/A,212,1,1973 | DAE | 1USAPUR |  |  |
| N.T.Porile+ | J,PR/C,9,2171,1974 | DAE | 1USAPUR |  |  |
| C.R.Lux+ | J,NP/A,248,441,1975 | DAE | 1USAPUR |  |  |
| J.C.Pacer+ | J,NP/A,226,413,1974 | DAE | 1USAPUR |  |  |
| H.S.Gertzman+ | J,NP/A,151,273,1970 | DAP | 1USAROC | R=sigma(2+)/sigma(elastic) |  |
| Th.W.Elze+ | J,PR/C,1,328,1970 | DAP | 1USAROC |  |  |
| C.C.Lu+ | J,NP/A,164,225,1971 | DAE | 1USAROC |  |  |
| R.H.Price+ | J,NP/A,176,338,1971 | DAP | 1USAROC |  |  |
| M.T.Lu+ | J,PR/C,3,1243,1971 | DAP | 1USAROC |  |  |
| S.Harar+ | J,NP/A,183,161,1972 | DAP | 1USAROC | He3 induced reaction |  |
| L.C.Vaz+ | J,PR/C,5,463,1972 | DAE | 1USAROC |  |  |
| J.S.Boyno+ | J,PR/C,6,1411,1972 | DAP | 1USAROC |  |  |
| A.Jamshidi+ | J,PR/C,8,1782,1973 | DAP | 1USAROC |  |  |
| A.Jamshidi+ | J,PR/C,8,1796,1973 | DAP | 1USAROC |  |  |
| H.Freiesleben+ | J,NP/A,224,503,1974 | CS | 1USAROC |  |  |
| M.J.A.de Voigt+ | J,PR/C,10,1798,1974 | DAP | 1USAROC |  |  |
| R.G.Markham+ | J,PR/C,9,1633,1974 | DAP | 1USAROC |  |  |
| R.N.Boyd+ | J,NP/A,281,405,1977 | DAP | 1USAROC |  |  |
| G.Guillaume+ | J,PR/C,15,1156,1977 | DAP | 1USAROC | A part of data measured by itinerants from 1USAROC at 2FR STR. |  |
| R.D.Griffioen+ | J,PR/C,18,671,1978 | DAP | 1USAROC |  |  |
| I.M.Govil+ | J,PR/C,33,793,1986 | DAP | 1USAROC |  |  |
| I.M.Govil+ | J,PR/C,36,1442,1987 | DAP | 1USAROC |  |  |
| F.T.Baker+ | J,PL/B,70,167,1977 | DAP | 1USARUT | See also J,PRL,40,364,1978. |  |
| F.T.Baker+ | J,PR/C,17,1559,1978 | DAP | 1USARUT |  |  |
| R.M.Ronningen+ | J,PRL,40,364,1978 | DAP | 1USARUT | See also J,PL/B,70,167,1977 for 2+ data. |  |
| R.R.Doering+ | J,PRL,40,1433,1978 | DAE | 1USASRE |  |  |
| W.E.Dollhopf+ | J,NP/A,316,350,1979 | D3A | 1USASRE |  |  |
| T.C.Schweizer+ | J,PR/C,19,1408,1979 | DAE | 1USASRE |  |  |
| S.L.Tabor+ | J,PR/C,11,198,1975 | DA | 1USASTF |  |  |
| S.L.Tabor+ | J,PR/C,14,514,1976 | DA | 1USASTF |  |  |
| J.B.Natowitz+ | J,PL/B,30,463,1969 | CS | 1USATAM |  |  |
| E.T.Chulick+ | J,NP/A,173,487,1971 | CS | 1USATAM |  |  |
| J.H.Barker+ | J,PR/C,4,2256,1971 | DA | 1USATAM |  |  |
| J.H.Barker+ | J,PR/C,6,1795,1972 | DA | 1USATAM |  |  |
| J.M.Moss+ | J,PL/B,53,51,1974 | DAP | 1USATAM |  |  |
| L.L.Rutledge+ | J,PRL,32,551,1974 | DAP | 1USATAM |  |  |
| G.M.Lerner+ | J,PR/C,12,778,1975 | DA | 1USATAM |  |  |
| J.M.Moss+ | J,PRL,34,748,1975 | DAP | 1USATAM |  |  |
| L.L.Rutledge+ | J,PR/C,13,1072,1976 | DAP | 1USATAM |  |  |
| J.M.Moss+ | J,PRL,37,816,1976 | DAP | 1USATAM | Same data plotted in J,PR/C,18,741,1978 |  |
| D.H.Youngblood+ | J,PR/C,15,246,1977 | D3A | 1USATAM | Not suitable for digitization. |  |
| D.H.Youngblood+ | J,PRL,39,1188,1977 | DAP | 1USATAM |  |  |
| J.M.Moss+ | J,PR/C,18,741,1978 | DAP | 1USATAM | A part of data also published in J,PRL,37,816,1976. |  |
| R.E.Tribble+ | J,PRL,40,13,1978 | DA | 1USATAM |  |  |
| D.R.Brown+ | J,NP/A,313,157,1979 | DAP | 1USATAM |  |  |
| Y.-W.Lui+ | J,PL/B,93,31,1980 | DAP | 1USATAM |  |  |
| C.M.Rozsa+ | J,PR/C,21,1252,1980 | DA | 1USATAM |  |  |
| Z.Majka+ | J,PR/C,35,2125,1987 | DAE | 1USATAM |  |  |
| D.H.Youngblood+ | J,NP/A,599,387c,1996 | DAP | 1USATAM | C0183.003 data given. | C0183 |
| D.H.Youngblood+ | J,NP/A,649,49c,1999 | DAE | 1USATAM | Data plotted by continuous lines. |  |
| D.H.Youngblood+ | J,PRL,82,691,1999 | DAE | 1USATAM |  |  |
| H.L.Clark+ | J,NP/A,687,80c,2001 | DA | 1USATAM | Not suitable for digitization. |  |
| R.O.Nelson+ | J,NP/A,215,541,1973 | DAP | 1USATNL | proton induced reaction |  |
| H.R.Weller | J,PR/C,20,1589,1979 | DAP | 1USATNL |  |  |
| B.M.Gordon | J,NP/A,153,225,1970 | CS | 1USAUSA | 1USABNL+1USASTB |  |
| D.L.Uhl+ | J,PR/C,4,1357,1971 | CS | 1USAUSA | 1USAANL+1USAORL |  |
| R.D.Kieburtz+ | J,JIN,34,3303,1972 | CS | 1USAUSA | 1USABRK+1USAWAU |  |
| R.M.Williams+ | J,JIN,35,3651,1973 | CS | 1USAUSA | 1USABRK+1USAWAU |  |
| R.D.Kieburtz+ | J,JIN,36,3643,1974 | CS | 1USAUSA | 1USABRK+1USAWAU |  |
| C.H.King+ | J,PRL,35,988,1975 | CS | 1USAUSA | 1USAMRD+1USAMSU. A part of data finalized in A1262. |  |
| R.Jahn+ | J,PL/B,65,339,1976 | DAP | 1USAUSA | 1USABRK? 1USAMSU? |  |
| C.B.Fulmer+ | J,PR/C,13,937,1976 | DA | 1USAUSA | 1USAORL+1USAWAS |  |
| D.R.Brown+ | J,PR/C,14,896,1976 | DAP | 1USAUSA | 1USABRK+1USAWAU |  |
| W.A.Schier+ | J,PR,181,1371,1969 | CSP | 1USAVIR | Cross section ratio |  |
| P.T.Sewell+ | J,PR/C,7,690,1973 | DAP | 1USAWAS |  |  |
| J.H.Barker+ | J,PR/C,9,607,1974 | DAP | 1USAWAS |  |  |
| E.F.Neuzil+ | J,JIN,27,1463,1965 | CS | 1USAWAU |  |  |
| E.F.Neuzil | J,JIN,28,1519,1966 | CS | 1USAWAU |  |  |
| E.F.Neuzil+ | J,JIN,30,1161,1968 | CS | 1USAWAU |  |  |
| C.Rudy+ | J,NP/A,188,430,1972 | DAP | 1USAWAU |  |  |
| J.Spuller+ | J,NP/A,248,276,1975 | DAP | 1USAWAU |  |  |
| G.Feldman+ | J,PR/C,47,1436,1993 | DE | 1USAWAU |  |  |
| J.A.Behr+ | J,PR/C,53,1759,1996 | DE | 1USAWAU |  |  |
| F.A.Rose | J,NP/A,124,305,1969 | DAP | 1USAWIS |  |  |
| P.B.Tollefsrud+ | J,PR/C,1,398,1970 | DAP | 1USAWIS |  |  |
| S.J.Wilson | J,PR/C,11,1071,1975 | DAP | 1USAWIS |  |  |
| L.C.Chen | J,PR/C,14,2069,1976 | DAP | 1USAWIS |  |  |
| J.J.Ramirez+ | J,NP/A,173,207,1971 | DA | 1USAWMU |  |  |
| E.M.Bernstein+ | J,PR/C,3,427,1971 | DAP | 1USAWMU |  |  |
| A.A.Aponick+ | J,NP/A,159,367,1970 | DA | 1USAYAL |  |  |
| J.P.Schiffer+ | J,PRL,92,162501,2004 | DAP | 1USAYAL |  |  |
| B.P.Kay+ | J,PL/B,658,216,2008 | DAP | 1USAYAL |  |  |
| G.Gregoire+ | J,NP/A,99,481,1967 | DA | 2BLGLEU |  |  |
| E.Labie+ | J,NP/A,205,81,1973 | CS | 2BLGLVN |  |  |
| N.E.Davison+ | J,NP/A,352,83,1981 | DAP | 2BLGLVN |  |  |
| J.L.Sida+ | J,NP/A,685,51c,2001 | CS | 2BLGLVN |  |  |
| N.O.Lassen+ | J,NP,56,259,1964 | DAP | 2DENCOP |  |  |
| P.Norgaard+ | J,NP/A,162,449,1971 | DAP | 2DENNBI |  |  |
| P.Limkilde+ | J,NP/A,199,504,1973 | CS | 2DENNBI |  |  |
| T.Hammer+ | J,NP/A,202,321,1973 | DA | 2DENNBI |  |  |
| K.Nybo+ | J,PS,63,181,2001 | DAP | 2DENNBI |  |  |
| H.Ejiri+ | J,NP/A,161,449,1971 | DAP | 2DENNBI |  |  |
| G.Bruge+ | J,PRL,29,295,1972 | DAP | 2FR SAC |  |  |
| P.Gaillard+ | J,PRL,25,593,1970 | D3A | 2FR GRE |  |  |
| M.Buenerd+ | J,PR/C,14,1316,1976 | DAP | 2FR GRE |  |  |
| M.Buenerd+ | J,NP/A,286,377,1977 | DAP | 2FR GRE |  |  |
| S.Gales+ | J,PRL,48,1593,1982 | DAP | 2FR GRE | See also J,PR/C,31,94,1985. |  |
| S.Gales+ | J,PR/C,31,94,1985 | DAP | 2FR GRE | See also J,PRL,48,1593.1982. |  |
| A.Chevarier+ | J,PR/C,8,2155,1973 | DAE | 2FR LYO |  |  |
| J.C.Krupa+ | J,JIN,31,3011,1969 | CS | 2FR PAR |  |  |
| I.Brissaud+ | J,PL/B,30,324,1969 | DA | 2FR PAR | Preliminary report of J,NP/A,155,89,1970. | D0217 |
| B.Tatischeff+ | J,PR/C,4,494,1971 | DAP | 2FR PAR |  |  |
| I.Brissaud+ | J,NP/A,191,145,1972 | DA | 2FR PAR |  |  |
| D.Bachelier+ | J,NP/A,195,361,1972 | DA | 2FR PAR |  |  |
| B.Tatischeff+ | J,PR/C,5,234,1972 | DA | 2FR PAR |  |  |
| I.Brissaud+ | J,PR/C,6,595,1972 | DA | 2FR PAR |  |  |
| L.Bimbot+ | J,NP/A,210,397,1973 | DAP | 2FR PAR |  |  |
| M.Vergnes+ | J,PRL,46,584,1981 | CSP | 2FR PAR | A part of data measured by itinerants from 2FR PAR at 1CANMCM |  |
| E.Hourani+ | J,NP/A,391,432,1982 | DAP | 2FR PAR |  |  |
| E.Gerlic+ | J,PL/B,117,20,1982 | DAP | 2FR PAR |  |  |
| S.Gales+ | J,PL/B,144,323,1984 | DAP | 2FR PAR |  |  |
| L.H.Rosier+ | J,NP/A,500,323,1989 | DA | 2FR PAR |  |  |
| E.I.Obiajunwa+ | J,NP/A,500,341,1989 | DAP | 2FR PAR |  |  |
| G.Bruge+ | J,NP/A,146,597,1970 | DA | 2FR SAC |  |  |
| P.Roussel+ | J,NP/A,155,306,1970 | DAP | 2FR SAC |  |  |
| I.Badawy+ | J,PR/C,17,978,1978 | DA | 2FR SAC |  |  |
| B.Bonin+ | J,NP/A,430,349,1984 | DA | 2FR SAT | Fig.A1 data for addition in D0214. | D0214 |
| H.Driller+ | J,NP/A,317,300,1979 | DAP | 2GERBOC | Not suitable for digitization |  |
| F.Schuemann+ | J,EPJ/A,2,337,1998 | DA | 2GERBOC |  |  |
| F.Hinterberger+ | J,NP/A,259,385,1976 | DAP | 2GERBON |  |  |
| J.Bisplinghoff+ | J,NP/A,269,147,1976 | DAE | 2GERBON |  |  |
| F.Hinterberger+ | J,NP/A,299,397,1978 | DA | 2GERBON | Not suitable for digitization |  |
| F.Hinterberger+ | J,NP/A,308,61,1978 | DAP | 2GERBON |  |  |
| H.Hofer+ | J,NP/A,338,190,1980 | DAP | 2GERBON |  |  |
| P.David+ | J,NP/A,417,24,1984 | KE | 2GERBON |  |  |
| U.Fister+ | J,PR/C,42,2375,1990 | DA | 2GERBON |  |  |
| J.Fritze+ | J,PR/C,43,2307,1991 | DA | 2GERBON |  |  |
| P.von Neumann-Cosel+ | J,PR/C,47,1027,1993 | DAP | 2GERBON |  |  |
| P.von Neumann-Cosel+ | J,PR/C,56,547,1997 | DAP | 2GERBON |  |  |
| U.Prigge+ | J,NIM/B,117,18,1996 | CS | 2GERFRK |  |  |
| P.David+ | J,NP/A,319,205,1979 | CS | 2GERJUL |  |  |
| B.Ludewigt+ | J,PL/B,108,15,1982 | DAE | 2GERJUL | See also J,NP/A,408,359,1983 for proton DDX. |  |
| B.Ludewigt+ | J,NP/A,408,359,1983 | DAE | 2GERJUL |  |  |
| P.Decowski+ | J,PL/B,141,49,1984 | D3A | 2GERJUL | Not suitable for digitization |  |
| H.Eickhoff+ | J,NP/A,252,333,1975 | DA | 2GERJUL |  |  |
| W.R.Falk+ | J,NP/A,252,452,1975 | DAP | 2GERJUL |  |  |
| K.T.Knoepfle+ | J,PL/B,64,263,1976 | DAP | 2GERJUL |  |  |
| A.Kiss+ | J,PRL,37,1188,1976 | DAP | 2GERJUL | for revision of O1827 | O1827 |
| J.P.Didelez+ | J,NP/A,318,205,1979 | DAP | 2GERJUL |  |  |
| H.P.Morsch+ | J,PR/C,20,1600,1979 | DAP | 2GERJUL |  |  |
| K.T.Knoepfle+ | J,PRL,46,1372,1981 | DAE | 2GERJUL | Not suitable for digitization |  |
| R.Shyam+ | J,PR/C,27,2393,1983 | DAE | 2GERJUL | Not suitable for digitization |  |
| H.Riedesel+ | J,NP/A,454,85,1986 | DAE | 2GERJUL | Not suitable for digitization |  |
| B.Bochev+ | J,NP/A,458,429,1986 | DAE | 2GERJUL |  |  |
| H.Machner+ | J,PR/C,33,1931,1986 | DE | 2GERJUL |  |  |
| B.Bochev | J,NP/A,518,401,1990 | DAE | 2GERJUL |  |  |
| J.Specht+ | J,NP/A,143,373,1970 | DAP | 2GERKFK | Same data in D0215 and D0216. |  |
| J.Specht+ | J,NP/A,171,65,1971 | DAP | 2GERKFK | Same data in D0216.004 and 005. | D0216 |
| W.Fetscher+ | J,PL/B,34,171,1971 | DA | 2GERKFK | Numerical data in KFK-1204 |  |
| W.Fetscher+ | J,PL/B,35,31,1971 | DA | 2GERKFK | See also J,NP/A,216,47,1973. |  |
| H.Rebel+ | J,PRL,26,1190,1971 | DA | 2GERKFK | Same data in D0215. | D0215 |
| G.Hauser+ | J,NP/A,182,1,1972 | DAP | 2GERKFK |  |  |
| G.W.Schweimer+ | J,PL/B,39,627,1972 | DA | 2GERKFK |  |  |
| W.Fetscher+ | J,NP/A,216,47,1973 | DAP | 2GERKFK | See also J,PL/B,35,31,1971. |  |
| H.Rebel+ | J,NP/A,218,13,1974 | DAP | 2GERKFK |  |  |
| H.J.Gils+ | J,PR/C,13,2159,1976 | DA | 2GERKFK | Numerical data in KFK-2225. 208Pb data different from D0216.020. |  |
| H.Faust+ | J,JP/G,4,247,1978 | DAP | 2GERKFK |  |  |
| E.Friedman+ | J,PRL,41,1220,1978 | DA | 2GERKFK | Preliminary report of J,PR/C,21,1239,1980 | D0332 |
| H.Riedesel+ | J,PRL,41,377,1978 | DAA | 2GERKFK |  |  |
| H.Rost+ | J,PL/B,88,51,1979 | DA | 2GERKFK |  |  |
| W.R.Hering+ | J,NP/A,151,33,1970 | DAP | 2GERMPH |  |  |
| W.Brueckner+ | J,PRL,30,57,1973 | DA | 2GERMPH |  |  |
| A.Szanto de Toledo+ | J,NP/A,320,309,1979 | DAP | 2GERMPH | He3 induced reaction |  |
| B.Schuermann+ | J,NP/A,475,361,1987 | DAP | 2GERMPH |  |  |
| R.Neu+ | J,PR/C,39,2145,1989 | DAP | 2GERMPH |  |  |
| P.Hille+ | J,NP/A,232,157,1974 | DAP | 2GERMUN |  |  |
| W.Trombik+ | J,PR/C,11,685,1975 | DAP | 2GERMUN |  |  |
| K.A.Eberhard+ | J,PR/C,14,2332,1976 | DA | 2GERMUN |  |  |
| B.D.Valnion+ | J,PR/C,63,024318,2001 | DAP | 2GERMUN | Numerical data in thesis (ISBN 3-89675-328-2)? |  |
| M.Fey+ | J,NP/A,718,131c,2003 | CS | 2GERTHS | Preliminary report of O1420? |  |
| H.Ortner+ | J,PR/C,27,1988,1983 | DA | 2GERUEN |  |  |
| F.Pellegrini+ | J,PR/C,4,112,1971 | DAP | 2ITYPAD |  |  |
| H.Muramatsu+ | J,JIN,43,1727,1981 | CS | 2JPNIPC |  |  |
| I.Kumabe+ | J,JPJ,25,301,1968 | DAP | 2JPNKTO | Another experiment (natCu+a) in E2250. |  |
| M.Matoba | J,JPJ,25,901,1968 | DAP | 2JPNKTO |  |  |
| N.Fujiwara | J,JPJ,27,1380,1969 | D3A | 2JPNKTO |  |  |
| M.Matoba+ | J,NP/A,176,178,1971 | DAP | 2JPNKTO |  |  |
| T.Wakatsuki+ | J,JPJ,28,1107,1970 | DAP | 2JPNOSA |  |  |
| H.Sakai | J,PR/C,20,464,1979 | DAE | 2JPNOSA | Preliminary result of E0832 (K.Maeda, 2018-01-11). Digitize DDX for addition. | E0832 |
| S.Kakigi+ | J,JPJ,48,1797,1980 | D3A | 2JPNOSA |  |  |
| H.Ejiri+ | J,JPJ,49,2103,1980 | CS | 2JPNOSA | Preliminary result of E0832. (K.Maeda, 2018-01-11) | E0832 |
| K.Okada+ | J,NP/A,349,125,1980 | DAP | 2JPNOSA | 52Cr(a,d)54Mn with another normalization in E0106.002. |  |
| H.Ohsumi+ | J,NP/A,469,507,1987 | D4A | 2JPNOSA |  |  |
| A.M.van den Berg+ | J,AHP/N,13,21,2001 | DAA | 2JPNOSA |  |  |
| M.Itoh+ | J,NP/A,687,52c,2001 | DA | 2JPNOSA | Preliminary report of E1796. | E1796 |
| M.Itoh+ | J,NP/A,738,268,2004 | DAP | 2JPNOSA | Preliminary report of E2157? |  |
| M.Ogawa+ | J,NP/A,194,259,1972 | CA | 2JPNTIT | proton induced reaction |  |
| M.Inoue | J,NP/A,119,449,1968 | DAP | 2JPNTOK |  |  |
| I.Kumabe+ | J,JPJ,25,14,1968 | DA | 2JPNTOK |  |  |
| H.Hamagaki+ | J,JPJ,54,2453,1985 | FY | 2JPNTOK |  |  |
| A.Stolk+ | J,PL/B,200,13,1988 | DE | 2NEDFUL | Preliminary report of F0089. | F0089 |
| W.T.H.van Oers+ | J,NP,74,469,1965 | DA | 2NEDIKO |  |  |
| M.N.Harakeh+ | J,NP/A,265,189,1976 | DAP | 2NEDKVI | Compile with J,PL/B,62,155,1976 |  |
| M.N.Harakeh+ | J,PL/B,62,155,1976 | DAP | 2NEDKVI | Compile with J,NP/A,265,189,1976 (same data) |  |
| G.C.Yang | J,PR/C,13,1376,1976 | DAP | 2NEDKVI |  |  |
| R.Kamermans+ | J,PL/B,66,226,1977 | DAP | 2NEDKVI |  |  |
| K.Van der Borg+ | J,PL/B,67,405,1977 | DAE | 2NEDKVI |  |  |
| M.N.Harakeh+ | J,PRL,38,676,1977 | DAP | 2NEDKVI | Compile with J,NP/A,327,373,1979 (same data) |  |
| K.van der Borg+ | J,NP/A,325,31,1979 | DAP | 2NEDKVI |  |  |
| R.Kamermans+ | J,NP/A,314,37,1979 | DAP | 2NEDKVI |  |  |
| M.N.Harakeh+ | J,NP/A,327,373,1979 | DAP | 2NEDKVI | Compile with J,PRL,38,676,1977 |  |
| K.van der Borg+ | J,PL/B,84,51,1979 | DAP | 2NEDKVI |  |  |
| M.N.Harakeh+ | J,NP/A,344,15,1980 | DA | 2NEDKVI |  |  |
| J.van Driel+ | J,NP/A,350,109,1980 | DAP | 2NEDKVI |  |  |
| M.N.Harakeh+ | J,PR/C,21,768,1980 | DAP | 2NEDKVI |  |  |
| K.van Der Borg+ | J,NP/A,365,243,1981 | DAP | 2NEDKVI |  |  |
| J.van Driel+ | J,PRL,46,525,1981 | DAP | 2NEDKVI |  |  |
| P.David+ | J,NP/A,380,27,1982 | KE | 2NEDKVI |  |  |
| S.Brandenburg+ | J,PL/B,130,9,1983 | DAP | 2NEDKVI |  |  |
| H,J,Lu+ | J,PR/C,33,1116,1986 | DAP | 2NEDKVI |  |  |
| S.Y.van der Werf+ | J,PR/C,36,1796,1987 | DAP | 2NEDKVI |  |  |
| W.T.A.Borghols+ | J,NP/A,515,173,1990 | D3A | 2NEDKVI |  |  |
| A.Krasznahorkay+ | J,PRL,66,1287,1991 | DAP | 2NEDKVI |  |  |
| E.Andersen+ | J,NP/A,550,235,1992 | DAP | 2NEDKVI |  |  |
| T.D.Poelhekken+ | J,PL/B,278,423,1992 | DAA | 2NEDKVI |  |  |
| M.A.Hofstee+ | J,NP/A,588,729,1995 | DAP | 2NEDKVI |  |  |
| H.G.Leighton+ | J,NP/A,151,71,1970 | DA | 2NEDUTR |  |  |
| W.Neumann+ | J,NIM/B,50,57,1990 | CS | 2SWTPSI |  |  |
| S.A.Weisrose+ | J,JP/G,1,334,1975 | DA | 2UK HAR |  |  |
| T.B.Robinson+ | J,NP/A,301,36,1978 | DAP | 2UK HAR |  |  |
| B.Wakefield+ | J,PL/B,31,56,1970 | DA | 2UK LVP |  |  |
| L.R.Grisham+ | J,NP/A,278,61,1977 | DAP | 2UK OXF |  |  |
| T.J.M.Symons+ | J,JP/G,4,411,1978 | RP | 2UK OXF |  |  |
| Z.E.Switkowski+ | J,PR/C,16,1264,1977 | CSP | 3AULAML |  | D0856 |
| R.H.Spear+ | J,NP/A,318,21,1979 | RP | 3AULAML |  | D0855 |
| Ph.Martin+ | J,NP/A,194,491,1972 | DAP | 3AULCBR |  | D0857 |
| G.S.Foote+ | J,NP/A,220,505,1974 | DAP | 3AULCBR |  | D0858 |
| G.S.Foote+ | J,NP/A,263,349,1976 | DAP | 3AULCBR |  | D0859 |
| K.A.Aniol+ | J,NP/A,303,154,1978 | DAP | 3AULCBR |  |  |
| A.M.Baxter+ | J,NP/A,369,25,1981 | DA | 3AULCBR |  |  |
| L.C.Gomes+ | J,PR/C,54,2296,1996 | DA | 3BZLUSP |  |  |
| E.Szilagyi+ | J,NIM/B,43,502,1989 | DA | 3HUNKFI | Data no longer available (Edit Szilagyi, 2018-01-12) | D4380 |
| N.N.Ajitanand+ | J,PR/C,40,R1854,1989 | CS | 3INDIND | Irradiated at 3INDTRM and 3INDVEC |  |
| M.A.Eswaran+ | J,PR/C,39,1856,1989 | DAP | 3INDVEC |  |  |
| M.B.Chatterjee+ | J,PR/C,42,2737,1990 | CS | 3INDVEC |  |  |
| R.H.Iyer+ | J,PR/C,44,2644,1991 | CS | 3INDVEC |  |  |
| N.Chakravarty+ | J,PR/C,45,1171,1992 | CS | 3INDVEC | Relation with A0582 must be clarified. |  |
| R.H.Iyer+ | J,PR/C,48,87,1993 | CS | 3INDVEC |  |  |
| M.K.Bhardwaj+ | J,IMP/E,3,239,1994 | CS | 3INDVEC | Relation with A0629 (published in 1991 by the same univ.) could be for clarification. |  |
| N.L.Singh+ | J,CJP,82,227,2004 | CS | 3INDVEC |  |  |
| G.Goldring+ | J,PL/B,32,465,1970 | DA | 3ISLWZI | Experimental site not clear. 3ISLWZI? 1USASTF? |  |
| Y.Eisen+ | J,NP/A,236,327,1974 | DA | 3ISLWZI |  |  |
| M.Samuel+ | J,NP/A,279,210,1977 | DAP | 3ISLWZI | a part of data from 2GERKLN (not separable) |  |
| A.Budzanowski+ | J,NP/A,211,463,1973 | DA | 3POLIFJ | Numerical data in INP-740/PL and INP-805/PL |  |
| I.Skwirczynska+ | J,NP/A,371,288,1981 | DAP | 3POLIFJ |  |  |
| D.Bucurescu+ | J,NP/A,189,577,1972 | DAP | 3RUMBUC |  |  |
| V.Corcalciuc+ | J,NP/A,202,377,1973 | DAP | 3RUMBUC |  |  |
| A.Alevra+ | J,NP/A,265,376,1976 | DAE | 3RUMBUC |  |  |
| S.J.Mills+ | J,NP/A,124,597,1969 | CSP | 3SAFNLP | Experimental site no very clear. |  |
| G.F.Burdzik+ | J,NP/A,185,509,1972 | DA | 3SAFNLP |  |  |
| G.Heymann | J,PL/B,27,280,1968 | DA | 3SAFSIR | Data measured by itinerant from 3SAFSIR at 1USAMIT and 2UK ALD. |  |
| Z.Todorovic+ | J,RM,36,313,2003 | CS | 3YUGBKB | Data measured by itinerants from 3YUGBKB at 2FR SAT and 4ZZDUB. |  |
| Ye.N.Gruzintsev+ | J,PL/B,126,428,1983 | FY | 4KASKAZ | Incident energy unknown. Not for compilation? |  |
| G.Fazio+ | J,JPJ,64,1141,1995 | DAP | 4UKRIJD |  | D5138 |
| Yu.Ts.Oganessian+ | J,JP/G,18,393,1992 | CS | 4ZZZDUB | a part of data from 4KASKAZ. |  |

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