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**Memo CP-C/378**

**DATE:** August 3, 2006  
**TO:** Distribution  
**FROM:** D. Rochman  
**SUBJECT:** Deficiencies in CSISRS (EXFOR)

Thanks to the feedback from our users, we present some deficiencies in the CSISRS compilations. Shown below are the accession numbers and details. The criterion for an entry in the following list of errors in CSISRS files is the presence of a non-physical cross section. For instance, above 1 MeV, a cross section higher than 3 barns is not physical. Corrections should be made by responsible centers. It would be useful, in the future to have a built-in capability in our checking code to avoid this sort of mistakes.

Author	Year	Energy and cross section	Accession #
G.C.BONAZZOLA,ET.AL. (6)	1965	14.1999998 MeV $x_{s=}$ 5700. mb +- 2300.	21080 8
G.C.BONAZZOLA,ET.AL. (6)	1965	14.1999998 MeV $x_{s=}$ 17600. mb +- 2000.	21080 8
G.C.BONAZZOLA,ET.AL. (6)	1965	14.1999998 MeV $x_{s=}$ 15900. mb +- 1400.	21080 8
G.C.BONAZZOLA,ET.AL. (6)	1965	14.1999998 MeV $x_{s=}$ 18400. mb +- 2400.	21080 8
G.C.BONAZZOLA,ET.AL. (6)	1965	14.1999998 MeV $x_{s=}$ 15900. mb +- 1400.	21080 8
G.C.BONAZZOLA,ET.AL. (6)	1965	14.1999998 MeV $x_{s=}$ 18400. mb +- 2400.	21080 8
G.C.BONAZZOLA,ET.AL. (6)	1965	14.1999998 MeV $x_{s=}$ 5700. mb +- 2300.	21080 8
G.C.BONAZZOLA,ET.AL. (6)	1965	14.1999998 MeV $x_{s=}$ 17600. mb +- 2000.	21080 8
J.H.TOWLE,ET.AL. (62)	1962	3.97000003 MeV $x_{s=}$ 70000. mb +- 8000.	21089 18
J.H.TOWLE,ET.AL. (62)	1962	3.97000003 MeV $x_{s=}$ 140000. mb +- 13000.	21089 18
J.H.TOWLE,ET.AL. (62)	1962	3.97000003 MeV $x_{s=}$ 70000. mb +- 8000.	21089 18
J.H.TOWLE,ET.AL. (62)	1962	3.97000003 MeV $x_{s=}$ 100000. mb +- 9000.	21089 18
J.H.TOWLE,ET.AL. (62)	1962	3.97000003 MeV $x_{s=}$ 140000. mb +- 13000.	21089 18
J.H.TOWLE,ET.AL. (62)	1962	3.97000003 MeV $x_{s=}$ 180000. mb +- 15000.	21089 18
J.H.TOWLE,ET.AL. (62)	1962	3.97000003 MeV $x_{s=}$ 180000. mb +- 15000.	21089 18
J.H.TOWLE,ET.AL. (62)	1962	3.97000003 MeV $x_{s=}$ 100000. mb +- 9000.	21089 18
E.T.BOOTH,ET.AL. (37)	1937	2.5 MeV $x_{s=}$ 7400. mb +- 518.	21786 3
E.T.BOOTH,ET.AL. (37)	1937	2.5 MeV $x_{s=}$ 7400. mb +- 518. 0.	21786 3
X.C.CAO (62)	1962	14. MeV $x_{s=}$ 540000. mb +- 162000.	22616 2
X.C.CAO (62)	1962	14. MeV $x_{s=}$ 540000. mb +- 162000. 0.	22616 2
J.JANCZYSZYN,ET.AL. (73)	1973	14. MeV $x_{s=}$ 5800. mb +- 3000. 0.	30322 16
J.JANCZYSZYN,ET.AL. (73)	1973	14. MeV $x_{s=}$ 5800. mb +- 3000.	30322 16
S.K.MUKHERJEE,ET.AL. (6)	1961	14.8000002 MeV $x_{s=}$ 6500. mb +- 0. 0.	31161 10

S.K.MUKHERJEE,ET.AL. (6)	1961	14.8000002 MeV $x_s=$ 6500. mb +- 0.	31161 10
A.I.LEIPUNSKIJ, (58)	1958	2.69989991 MeV $x_s=$ 50000. mb +- 0.	40244 18
A.I.LEIPUNSKIJ, (58)	1958	2.69989991 MeV $x_s=$ 50000. mb +- 0. 0.	40244 18
A.I.LEIPUNSKIJ, (58)	1958	4. MeV $x_s=$ 25000. mb +- 0.	40244 59
A.I.LEIPUNSKIJ, (58)	1958	4. MeV $x_s=$ 25000. mb +- 0. 0.	40244 59
G.A.PROKOPETS (80)	1980	20.6000004 MeV $x_s=$ 57000. mb +- 11400.	41102 9
G.A.PROKOPETS (80)	1980	20.6000004 MeV $x_s=$ 5450. mb +- 1090.	41102 10
S.P.SIMAKOV,ET.AL. (92)	1992	14.1000004 MeV $x_s=$ 5165. mb +- 300.	41156 8
S.P.SIMAKOV,ET.AL. (92)	1992	14.1000004 MeV $x_s=$ 5220. mb +- 310.	41156 11
P.M.GOPYCH,ET.AL. (94)	1994	14.6000004 MeV $x_s=$ 16000. mb +- 4000.	41163 3
P.M.GOPYCH,ET.AL. (94)	1994	14.6000004 MeV $x_s=$ 10000. mb +- 4000.	41163 6
P.M.GOPYCH,ET.AL. (94)	1994	14.6000004 MeV $x_s=$ 4500. mb +- 400.	41163 7
P.M.GOPYCH,ET.AL. (94)	1994	14.6000004 MeV $x_s=$ 16000. mb +- 4000.	411633
P.M.GOPYCH,ET.AL. (94)	1994	14.6000004 MeV $x_s=$ 10000. mb +- 4000.	411636
P.M.GOPYCH,ET.AL. (94)	1994	14.6000004 MeV $x_s=$ 4500. mb +- 400. 0.	411637
N.G.ZAITSEVA,ET.AL. (90)	1990	9.19999981 MeV $x_s=$ 39000. mb +- 7800.	A0569 3
N.G.ZAITSEVA,ET.AL. (90)	1990	57.7999992 MeV $x_s=$ 9000. mb +- 1800.	A0569 3
N.G.ZAITSEVA,ET.AL. (90)	1990	62.7000008 MeV $x_s=$ 8000. mb +- 1600.	A0569 3
N.G.ZAITSEVA,ET.AL. (90)	1990	61.0999985 MeV $x_s=$ 8000. mb +- 1600.	A0569 3
N.G.ZAITSEVA,ET.AL. (90)	1990	59.5 MeV $x_s=$ 9000. mb +- 1800.	A0569 3
N.G.ZAITSEVA,ET.AL. (90)	1990	56.0999985 MeV $x_s=$ 9000. mb +- 1800.	A0569 3
N.G.ZAITSEVA,ET.AL. (90)	1990	54.4000015 MeV $x_s=$ 12000. mb +- 2400.	A0569 3
N.G.ZAITSEVA,ET.AL. (90)	1990	52.5999985 MeV $x_s=$ 11000. mb +- 2200.	A0569 3
N.G.ZAITSEVA,ET.AL. (90)	1990	50.7000008 MeV $x_s=$ 10000. mb +- 2000.	A0569 3
N.G.ZAITSEVA,ET.AL. (90)	1990	48.7999992 MeV $x_s=$ 11000. mb +- 2200.	A0569 3
N.G.ZAITSEVA,ET.AL. (90)	1990	46.9000015 MeV $x_s=$ 11000. mb +- 2200.	A0569 3
N.G.ZAITSEVA,ET.AL. (90)	1990	44.9000015 MeV $x_s=$ 12000. mb +- 2400.	A0569 3
N.G.ZAITSEVA,ET.AL. (90)	1990	42.7999992 MeV $x_s=$ 15000. mb +- 3000.	A0569 3
N.G.ZAITSEVA,ET.AL. (90)	1990	40.5999985 MeV $x_s=$ 14000. mb +- 2800.	A0569 3
N.G.ZAITSEVA,ET.AL. (90)	1990	38.2999992 MeV $x_s=$ 16000. mb +- 3200.	A0569 3
N.G.ZAITSEVA,ET.AL. (90)	1990	36. MeV $x_s=$ 15000. mb +- 3000.	A0569 3
N.G.ZAITSEVA,ET.AL. (90)	1990	33.5999985 MeV $x_s=$ 18000. mb +- 3600.	A0569 3
N.G.ZAITSEVA,ET.AL. (90)	1990	31. MeV $x_s=$ 22000. mb +- 4400.	A0569 3
N.G.ZAITSEVA,ET.AL. (90)	1990	28.3999996 MeV $x_s=$ 26000. mb +- 5200.	A0569 3
N.G.ZAITSEVA,ET.AL. (90)	1990	25.2999992 MeV $x_s=$ 29000. mb +- 5800.	A0569 3
N.G.ZAITSEVA,ET.AL. (90)	1990	22.2999992 MeV $x_s=$ 38000. mb +- 7600.	A0569 3
N.G.ZAITSEVA,ET.AL. (90)	1990	18.7000008 MeV $x_s=$ 90000. mb +- 18000.	A0569 3
N.G.ZAITSEVA,ET.AL. (90)	1990	14.3999996 MeV $x_s=$ 178000. mb +- 35600.	A0569 3
N.G.ZAITSEVA,ET.AL. (90)	1990	21.2000008 MeV $x_s=$ 37000. mb +- 7400.	A0569 4
N.G.ZAITSEVA,ET.AL. (90)	1990	17.8999996 MeV $x_s=$ 9000. mb +- 1800.	A0569 4
N.G.ZAITSEVA,ET.AL. (90)	1990	24.1000004 MeV $x_s=$ 24000. mb +- 4800.	A0569 4
N.G.ZAITSEVA,ET.AL. (90)	1990	27. MeV $x_s=$ 17000. mb +- 3400.	A0569 4
N.G.ZAITSEVA,ET.AL. (90)	1990	29.6000004 MeV $x_s=$ 44000. mb +- 8800.	A0569 4
N.G.ZAITSEVA,ET.AL. (90)	1990	32. MeV $x_s=$ 53000. mb +- 10600.	A0569 4
N.G.ZAITSEVA,ET.AL. (90)	1990	34.2999992 MeV $x_s=$ 47000. mb +- 9400.	A0569 4
N.G.ZAITSEVA,ET.AL. (90)	1990	36.5 MeV $x_s=$ 37000. mb +- 7400.	A0569 4
N.G.ZAITSEVA,ET.AL. (90)	1990	38.5999985 MeV $x_s=$ 26000. mb +- 5200.	A0569 4

N.G.ZAITSEVA,ET.AL. (90	1990	40.5999985 MeV $x_{s=}$ 19000. mb +- 3800.	A0569 4
N.G.ZAITSEVA,ET.AL. (90	1990	42.5999985 MeV $x_{s=}$ 15000. mb +- 3000.	A0569 4
N.G.ZAITSEVA,ET.AL. (90	1990	44.4000015 MeV $x_{s=}$ 14000. mb +- 2800.	A0569 4
N.G.ZAITSEVA,ET.AL. (90	1990	46.2999992 MeV $x_{s=}$ 12000. mb +- 2400.	A0569 4
N.G.ZAITSEVA,ET.AL. (90	1990	48.0999985 MeV $x_{s=}$ 12000. mb +- 2400.	A0569 4
N.G.ZAITSEVA,ET.AL. (90	1990	49.7999992 MeV $x_{s=}$ 12000. mb +- 2400.	A0569 4
N.G.ZAITSEVA,ET.AL. (90	1990	51.5 MeV $x_{s=}$ 10000. mb +- 2000.	A0569 4
N.G.ZAITSEVA,ET.AL. (90	1990	53.2000008 MeV $x_{s=}$ 11000. mb +- 2200.	A0569 4
N.G.ZAITSEVA,ET.AL. (90	1990	54.7999992 MeV $x_{s=}$ 9000. mb +- 1800.	A0569 4
N.G.ZAITSEVA,ET.AL. (90	1990	56.4000015 MeV $x_{s=}$ 10000. mb +- 2000.	A0569 4
N.G.ZAITSEVA,ET.AL. (90	1990	58. MeV $x_{s=}$ 10000. mb +- 2000.	A0569 4
N.G.ZAITSEVA,ET.AL. (90	1990	59.5 MeV $x_{s=}$ 9000. mb +- 1800.	A0569 4
N.G.ZAITSEVA,ET.AL. (90	1990	63.9000015 MeV $x_{s=}$ 9000. mb +- 1800.	A0569 4
N.G.ZAITSEVA,ET.AL. (90	1990	62.5 MeV $x_{s=}$ 10000. mb +- 2000.	A0569 4
N.G.ZAITSEVA,ET.AL. (90	1990	61. MeV $x_{s=}$ 10000. mb +- 2000.	A0569 4
T.Ohtsuki,ET.AL. (91)	1991	9.80000019 MeV $x_{s=}$ 12800. mb +- 1.89999998	E1411 2
T.Ohtsuki,ET.AL. (91)	1991	12.1999998 MeV $x_{s=}$ 183100. mb +- 16.5	E1411 2
T.Ohtsuki,ET.AL. (91)	1991	13. MeV $x_{s=}$ 284600. mb +- 21.89999996	E1411 2
T.Ohtsuki,ET.AL. (91)	1991	13.89999996 MeV $x_{s=}$ 368400. mb +- 27.60000004	E1411 2
T.Ohtsuki,ET.AL. (91)	1991	14.6000004 MeV $x_{s=}$ 447000. mb +- 31.3000011	E1411 2
T.Ohtsuki,ET.AL. (91)	1991	15.5 MeV $x_{s=}$ 449300. mb +- 35.9000015	E1411 2
T.Ohtsuki,ET.AL. (91)	1991	11.1999998 MeV $x_{s=}$ 77600. mb +- 8.60000038	E1411 2
T.Ohtsuki,ET.AL. (91)	1991	9. MeV $x_{s=}$ 4600. mb +- 1.5	E1411 3
T.Ohtsuki,ET.AL. (91)	1991	18. MeV $x_{s=}$ 1199000. mb +- 110.	E1411 3
T.Ohtsuki,ET.AL. (91)	1991	15.6000004 MeV $x_{s=}$ 762900. mb +- 80.5	E1411 3
T.Ohtsuki,ET.AL. (91)	1991	14.6000004 MeV $x_{s=}$ 532000. mb +- 90.	E1411 3
T.Ohtsuki,ET.AL. (91)	1991	13.6000004 MeV $x_{s=}$ 360100. mb +- 65.	E1411 3
T.Ohtsuki,ET.AL. (91)	1991	12.5 MeV $x_{s=}$ 256000. mb +- 54.	E1411 3
T.Ohtsuki,ET.AL. (91)	1991	12. MeV $x_{s=}$ 157600. mb +- 40.	E1411 3
T.Ohtsuki,ET.AL. (91)	1991	11.39999996 MeV $x_{s=}$ 109900. mb +- 35.	E1411 3
T.Ohtsuki,ET.AL. (91)	1991	10.1999998 MeV $x_{s=}$ 39200. mb +- 10.	E1411 3
T.Ohtsuki,ET.AL. (91)	1991	11.1999998 MeV $x_{s=}$ 70100. mb +- 23.	E1411 4
T.Ohtsuki,ET.AL. (91)	1991	12.1000004 MeV $x_{s=}$ 140100. mb +- 36.	E1411 4
T.Ohtsuki,ET.AL. (91)	1991	15.6000004 MeV $x_{s=}$ 695000. mb +- 85.	E1411 4
T.Ohtsuki,ET.AL. (91)	1991	13.1000004 MeV $x_{s=}$ 238900. mb +- 54.	E1411 4
T.Ohtsuki,ET.AL. (91)	1991	14. MeV $x_{s=}$ 374800. mb +- 65.	E1411 4
T.Ohtsuki,ET.AL. (91)	1991	14.8000002 MeV $x_{s=}$ 431200. mb +- 75.	E1411 4
T.Ohtsuki,ET.AL. (91)	1991	10.1999998 MeV $x_{s=}$ 29800. mb +- 11.	E1411 4
T.Ohtsuki,ET.AL. (91)	1991	12.1999998 MeV $x_{s=}$ 114200. mb +- 34.2000008	E1411 5
T.Ohtsuki,ET.AL. (91)	1991	11.1999998 MeV $x_{s=}$ 44200. mb +- 20.0999985	E1411 5
T.Ohtsuki,ET.AL. (91)	1991	13. MeV $x_{s=}$ 204600. mb +- 42.29999992	E1411 5
T.Ohtsuki,ET.AL. (91)	1991	13.89999996 MeV $x_{s=}$ 285300. mb +- 38.4000015	E1411 5
T.Ohtsuki,ET.AL. (91)	1991	14.6000004 MeV $x_{s=}$ 424600. mb +- 46.5	E1411 5
T.Ohtsuki,ET.AL. (91)	1991	15.5 MeV $x_{s=}$ 449000. mb +- 52.	E1411 5
T.Ohtsuki,ET.AL. (91)	1991	9.80000019 MeV $x_{s=}$ 6700. mb +- 3.5	E1411 5
T.Ohtsuki,ET.AL. (91)	1991	18. MeV $x_{s=}$ 134700. mb +- 35.	E1411 6
T.Ohtsuki,ET.AL. (91)	1991	12. MeV $x_{s=}$ 598400. mb +- 85.	E1411 6
T.Ohtsuki,ET.AL. (91)	1991	10.1999998 MeV $x_{s=}$ 16299.999 mb +-	E1411 7
T.Ohtsuki,ET.AL. (91)	1991	3.299999995	E1411 7
T.Ohtsuki,ET.AL. (91)	1991	13.1000004 MeV $x_{s=}$ 92800. mb +- 15.79999992	E1411 7
T.Ohtsuki,ET.AL. (91)	1991	14.39999996 MeV $x_{s=}$ 123300. mb +- 20.	E1411 7
T.Ohtsuki,ET.AL. (91)	1991	15.6000004 MeV $x_{s=}$ 152400. mb +- 22.8000011	E1411 7
T.Ohtsuki,ET.AL. (91)	1991	18. MeV $x_{s=}$ 342500. mb +- 44.5	E1411 7
T.Ohtsuki,ET.AL. (91)	1991	11.6999998 MeV $x_{s=}$ 56700. mb +- 10.5	E1411 7

T.Ohtsuki,ET.AL. (91)	1991	12. MeV $\sigma_{xs}$ = 64500. mb +- 10.3000002	E1411 8
T.Ohtsuki,ET.AL. (91)	1991	9. MeV $\sigma_{xs}$ = 10200. mb +- 3.29999995	E1411 8
T.Ohtsuki,ET.AL. (91)	1991	13.6999998 MeV $\sigma_{xs}$ = 418800. mb +- 50.5	E1411 8
T.Ohtsuki,ET.AL. (91)	1991	14. MeV $\sigma_{xs}$ = 455100. mb +- 20.	E1411 8
T.Ohtsuki,ET.AL. (91)	1991	15.5 MeV $\sigma_{xs}$ = 625300. mb +- 22.8000011	E1411 8
T.Ohtsuki,ET.AL. (91)	1991	16. MeV $\sigma_{xs}$ = 671000. mb +- 44.5	E1411 8
T.Ohtsuki,ET.AL. (91)	1991	11. MeV $\sigma_{xs}$ = 72800. mb +- 10.3000002	E1411 8
T.Ohtsuki,ET.AL. (91)	1991	12. MeV $\sigma_{xs}$ = 187300. mb +- 15.7999992	E1411 8
T.Ohtsuki,ET.AL. (91)	1991	10. MeV $\sigma_{xs}$ = 28900. mb +- 10.5	E1411 9
T.Ohtsuki,ET.AL. (91)	1991	12. MeV $\sigma_{xs}$ = 125300. mb +- 40.	E1411 9
T.Ohtsuki,ET.AL. (91)	1991	10.3999996 MeV $\sigma_{xs}$ = 27500. mb +- 10.5	E1411 9
T.Ohtsuki,ET.AL. (91)	1991	15.6000004 MeV $\sigma_{xs}$ = 385500. mb +- 102.5	E1411 9
T.Ohtsuki,ET.AL. (91)	1991	14. MeV $\sigma_{xs}$ = 202600. mb +- 62.7999992	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	19.5 MeV $\sigma_{xs}$ = 1246000. mb +- 149.	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	28.7999992 MeV $\sigma_{xs}$ = 1874000. mb +- 225.	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	27.5 MeV $\sigma_{xs}$ = 1905000. mb +- 229.	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	9.80000019 MeV $\sigma_{xs}$ = 49500. mb +- 9.5	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	25.5 MeV $\sigma_{xs}$ = 1894000. mb +- 233.	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	24.6000004 MeV $\sigma_{xs}$ = 1668000. mb +- 215.	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	23.6000004 MeV $\sigma_{xs}$ = 1689000. mb +- 236.	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	22.5 MeV $\sigma_{xs}$ = 1651000. mb +- 198.	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	21.6000004 MeV $\sigma_{xs}$ = 1530000. mb +- 229.	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	20.5 MeV $\sigma_{xs}$ = 1365000. mb +- 204.	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	32. MeV $\sigma_{xs}$ = 1850000. mb +- 250.	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	18.5 MeV $\sigma_{xs}$ = 1217000. mb +- 158.	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	17.5 MeV $\sigma_{xs}$ = 1210000. mb +- 169.	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	16.5 MeV $\sigma_{xs}$ = 981000. mb +- 117.	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	15.5 MeV $\sigma_{xs}$ = 890000. mb +- 98.	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	15.1000004 MeV $\sigma_{xs}$ = 854000. mb +- 111.	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	14.6999998 MeV $\sigma_{xs}$ = 721000. mb +- 85.5	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	14.3999996 MeV $\sigma_{xs}$ = 685000. mb +- 82.	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	14.1999998 MeV $\sigma_{xs}$ = 576000. mb +- 76.5	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	13.6999998 MeV $\sigma_{xs}$ = 497500. mb +- 43.5	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	13.5 MeV $\sigma_{xs}$ = 505000. mb +- 65.5	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	13.1999998 MeV $\sigma_{xs}$ = 436600. mb +- 52.4000015	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	12.8000002 MeV $\sigma_{xs}$ = 339000. mb +- 44.	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	12.6000004 MeV $\sigma_{xs}$ = 351500. mb +- 42.	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	11.8999996 MeV $\sigma_{xs}$ = 233000. mb +- 30.3000011	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	11.1999998 MeV $\sigma_{xs}$ = 155500. mb +- 27.5	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	10.8000002 MeV $\sigma_{xs}$ = 142400. mb +- 18.5	E1411 10
T.Ohtsuki,ET.AL. (91)	1991	26.5 MeV $\sigma_{xs}$ = 1815000. mb +- 246.	E1411 10
N.K.SHERMAN,ET.AL. (80)	1980	10.1999998 MeV $\sigma_{xs}$ = 65300.0039 mb +- 10.	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	3.86899996 MeV $\sigma_{xs}$ = 12126. mb +- 56.	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	4.32700014 MeV $\sigma_{xs}$ = 12128. mb +- 30.5	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	4.82999992 MeV $\sigma_{xs}$ = 12258. mb +- 23.5	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	5.33300018 MeV $\sigma_{xs}$ = 12394. mb +- 21.	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	5.83699989 MeV $\sigma_{xs}$ = 12561. mb +- 20.5	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	27.4699993 MeV $\sigma_{xs}$ = 19408. mb +- 206.5	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	26.9029999 MeV $\sigma_{xs}$ = 19300. mb +- 195.5	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	26.3549995 MeV $\sigma_{xs}$ = 19156. mb +- 187.5	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	25.8250008 MeV $\sigma_{xs}$ = 18658. mb +- 177.5	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	25.3120003 MeV $\sigma_{xs}$ = 18709. mb +- 176.	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	6.34800005 MeV $\sigma_{xs}$ = 12789. mb +- 21.5	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	23.9890003 MeV $\sigma_{xs}$ = 18791. mb +- 136.5	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	23.3139992 MeV $\sigma_{xs}$ = 18380. mb +- 131.	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	22.6700001 MeV $\sigma_{xs}$ = 18362. mb +- 127.5	M0420 2

N.K.SHERMAN,ET.AL. (80)	1980	22.0550003 MeV $x_{s=}$	18316. mb +- 124.	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	21.4680004 MeV $x_{s=}$	17903. mb +- 117.5	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	20.9069996 MeV $x_{s=}$	17868. mb +- 115.	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	20.3700008 MeV $x_{s=}$	17850. mb +- 112.	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	19.8560009 MeV $x_{s=}$	17920. mb +- 112.	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	19.2859993 MeV $x_{s=}$	17412. mb +- 90.	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	18.664999 MeV $x_{s=}$	17324. mb +- 86.5	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	18.0779991 MeV $x_{s=}$	17188. mb +- 84.	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	17.5 MeV $x_{s=}$	17093. mb +- 82.5	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	16.9769993 MeV $x_{s=}$	16924. mb +- 78.	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	16.4220009 MeV $x_{s=}$	16841. mb +- 68.5	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	15.8400002 MeV $x_{s=}$	16683. mb +- 67.5	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	15.2930002 MeV $x_{s=}$	16522. mb +- 64.5	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	14.7799997 MeV $x_{s=}$	16302.999 mb +- 63.	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	14.2530003 MeV $x_{s=}$	16124.001 mb +- 56.5	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	13.7150002 MeV $x_{s=}$	15947. mb +- 54.	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	13.1739998 MeV $x_{s=}$	15730. mb +- 47.5	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	12.6289997 MeV $x_{s=}$	15562. mb +- 46.	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	12.0880003 MeV $x_{s=}$	15380. mb +- 41.5	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	11.5570002 MeV $x_{s=}$	15056. mb +- 40.	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	11.0389996 MeV $x_{s=}$	14775. mb +- 36.5	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	10.5139999 MeV $x_{s=}$	14507. mb +- 34.	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	6.86999989 MeV $x_{s=}$	12990. mb +- 21.5	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	9.47599983 MeV $x_{s=}$	14097. mb +- 30.	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	8.93599987 MeV $x_{s=}$	13854. mb +- 28.5	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	8.38199997 MeV $x_{s=}$	13601. mb +- 26.5	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	7.93599987 MeV $x_{s=}$	13391. mb +- 24.5	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	7.40399981 MeV $x_{s=}$	13171. mb +- 22.5	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	9.99199963 MeV $x_{s=}$	14318. mb +- 32.	M0420 2
N.K.SHERMAN,ET.AL. (80)	1980	24.6970005 MeV $x_{s=}$	18514. mb +- 137.5	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	3.86899996 MeV $x_{s=}$	14846. mb +- 76.	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	4.32700014 MeV $x_{s=}$	14781. mb +- 44.5	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	4.82999992 MeV $x_{s=}$	14927. mb +- 33.5	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	5.33300018 MeV $x_{s=}$	15091. mb +- 30.5	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	5.83699989 MeV $x_{s=}$	15324. mb +- 29.5	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	13.7150002 MeV $x_{s=}$	19861. mb +- 76.5	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	6.34800005 MeV $x_{s=}$	15624. mb +- 31.	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	6.86999989 MeV $x_{s=}$	15878. mb +- 32.	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	7.40399981 MeV $x_{s=}$	16100. mb +- 33.5	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	13.1739998 MeV $x_{s=}$	19669. mb +- 68.5	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	8.38199997 MeV $x_{s=}$	16810. mb +- 39.	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	8.93599987 MeV $x_{s=}$	17013. mb +- 42.5	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	9.47599983 MeV $x_{s=}$	17402. mb +- 45.	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	9.99199963 MeV $x_{s=}$	17673. mb +- 47.5	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	10.5139999 MeV $x_{s=}$	17945. mb +- 50.	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	11.0389996 MeV $x_{s=}$	18293. mb +- 54.	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	11.5570002 MeV $x_{s=}$	18583. mb +- 58.5	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	12.0880003 MeV $x_{s=}$	19137. mb +- 60.5	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	12.6289997 MeV $x_{s=}$	19244. mb +- 66.	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	14.2530003 MeV $x_{s=}$	20095. mb +- 80.5	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	14.7799997 MeV $x_{s=}$	20165. mb +- 89.	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	15.2930002 MeV $x_{s=}$	20299. mb +- 90.5	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	15.8400002 MeV $x_{s=}$	20428. mb +- 93.	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	16.4220009 MeV $x_{s=}$	20738. mb +- 94.5	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	16.9769993 MeV $x_{s=}$	21082. mb +- 108.5	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	17.5 MeV $x_{s=}$	20972. mb +- 112.	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	18.0779991 MeV $x_{s=}$	21532. mb +- 116.	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	18.664999 MeV $x_{s=}$	21395. mb +- 118.	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	19.2859993 MeV $x_{s=}$	21513. mb +- 122.	M0420 3

N.K.SHERMAN,ET.AL. (80)	1980	19.8560009 MeV $\sigma_{xs} = 21905. \text{ mb} \pm 146.5$	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	20.3700008 MeV $\sigma_{xs} = 22147. \text{ mb} \pm 148.5$	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	20.9069996 MeV $\sigma_{xs} = 22286. \text{ mb} \pm 154.$	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	21.4680004 MeV $\sigma_{xs} = 22247. \text{ mb} \pm 157.$	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	22.0550003 MeV $\sigma_{xs} = 22589. \text{ mb} \pm 161.$	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	22.6700001 MeV $\sigma_{xs} = 22862. \text{ mb} \pm 167.5$	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	23.3139992 MeV $\sigma_{xs} = 22906. \text{ mb} \pm 170.5$	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	24.6970005 MeV $\sigma_{xs} = 23348. \text{ mb} \pm 182.$	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	25.3120003 MeV $\sigma_{xs} = 23504. \text{ mb} \pm 229.5$	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	25.8250008 MeV $\sigma_{xs} = 24074. \text{ mb} \pm 239.5$	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	26.3549995 MeV $\sigma_{xs} = 24281. \text{ mb} \pm 242.$	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	27.4699993 MeV $\sigma_{xs} = 24142. \text{ mb} \pm 250.999985$	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	7.93599987 MeV $\sigma_{xs} = 16412. \text{ mb} \pm 37.$	M0420 3
N.K.SHERMAN,ET.AL. (80)	1980	23.9890003 MeV $\sigma_{xs} = 23098. \text{ mb} \pm 173.$	M0420 3
J.P.Alard,ET.AL. (75)	1975	26.9029999 MeV $\sigma_{xs} = 23803. \text{ mb} \pm 247.$	O0046 5
M.ENKE,ET.AL. (99)	1999	600. MeV $\sigma_{xs} = 6550. \text{ mb} \pm 0.$	O0678 5
M.ENKE,ET.AL. (99)	1999	1200. MeV $\sigma_{xs} = 5140. \text{ mb} \pm 0.$	O0678 9
M.ENKE,ET.AL. (99)	1999	1200. MeV $\sigma_{xs} = 26700. \text{ mb} \pm 0.$	O0678 10
M.ENKE,ET.AL. (99)	1999	1200. MeV $\sigma_{xs} = 28400. \text{ mb} \pm 0.$	O0678 12
V.V.VERBINSKI,ET.AL. (69)	1969	1200. MeV $\sigma_{xs} = 30400. \text{ mb} \pm 0.$	O0726 11
N.L.Singh,ET.AL. (95)	1995	18.2999992 MeV $\sigma_{xs} = 7190. \text{ mb} \pm 0.$	O1116 2
S.Mukherjee,ET.AL. (97)	1997	15.6000004 MeV $\sigma_{xs} = 5600. \text{ mb} \pm 672.$	O1180 2
S.Mukherjee,ET.AL. (97)	1997	56.4500008 MeV $\sigma_{xs} = 4600. \text{ mb} \pm 414.$	O1180 2
S.Mukherjee,ET.AL. (97)	1997	59.7099991 MeV $\sigma_{xs} = 4300. \text{ mb} \pm 387.$	O1180 2
S.Mukherjee,ET.AL. (97)	1997	53.1800003 MeV $\sigma_{xs} = 5000. \text{ mb} \pm 500.$	O1180 2
S.Mukherjee,ET.AL. (97)	1997	48.8600006 MeV $\sigma_{xs} = 4400. \text{ mb} \pm 308.$	O1180 2
		50.1699982 MeV $\sigma_{xs} = 4800. \text{ mb} \pm 384.$	

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