

#ZVView-data-copy: 27-May-2023 00:37:17

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#

#name: 39-Y-89(N,G)39-Y-90-M,,SIG

#X.axis: Incident Energy

#Y.axis: Cross Section

#wdata: 4

#ldata: 59

#data...

#	X	+dX	Y	+dY	# Comments...
#	MeV	MeV	barns	barns	#
Year,Author(s)		## EXFOR-ID			
2.53e-8		0	0.00107	0	# 2013,F.Farina
Arbocco+ ## 23266091					
2.53e-8		0	0.00106	0	# 2013,F.Farina
Arbocco+ ## 23266091					
2.53e-8		0	0.00104	1.04e-5	# 1988,F.De
Corte+ ## 23488032					
0.143		0.016	0.000268	1.4472e-5	#
1967,H.A.Grench+ ## 11882002					#dY:5.4%
0.143		0.016	0.000239	3.585e-5	#
1967,H.A.Grench+ ## 11882004					#dY:15.0%
0.162		0.02145	0.000334	2.3e-5	#
1970,N.D.Dudey+ ## 10030004					#dY:6.9%
0.223		0.0175	0.000343	1.8522e-5	#
1967,H.A.Grench+ ## 11882002					#dY:5.4%
0.223		0.0175	0.000326	4.89e-5	#
1967,H.A.Grench+ ## 11882004					#dY:15.0%
0.245		0.02025	0.000344	1.8e-5	#
1970,N.D.Dudey+ ## 10030004					#dY:5.2%
0.259		0.01665	0.000297	2.1e-5	#
1970,N.D.Dudey+ ## 10030004					#dY:7.1%
0.314		0.018	0.000352	2.1e-5	#
1970,N.D.Dudey+ ## 10030004					#dY:6.0%
0.318		0.0165	0.00037	1.998e-5	#
1967,H.A.Grench+ ## 11882002					#dY:5.4%
0.318		0.0165	0.000356	5.34e-5	#
1967,H.A.Grench+ ## 11882004					#dY:15.0%
0.354		0.0237	0.000417	2.9e-5	#
1970,N.D.Dudey+ ## 10030004					#dY:7.0%
0.426		0.0178	0.000394	2.9e-5	#
1970,N.D.Dudey+ ## 10030004					#dY:7.4%
0.426		0.0145	0.000413	2.2302e-5	#
1967,H.A.Grench+ ## 11882002					#dY:5.4%
0.426		0.0145	0.000421	6.315e-5	#
1967,H.A.Grench+ ## 11882004					#dY:15.0%
0.472		0.0227	0.000407	3.2e-5	#
1970,N.D.Dudey+ ## 10030004					#dY:7.9%
0.509		0.03705	0.000409	3.1e-5	#
1970,N.D.Dudey+ ## 10030004					#dY:7.6%

0.525	0.0155	0.000466	2.5164e-5	#
1967,H.A.Grench+	## 11882002	#dY:5.4%		
0.525	0.0155	0.000477	7.155e-5	#
1967,H.A.Grench+	## 11882004	#dY:15.0%		
0.577	0.0197	0.000452	2.8e-5	#
1970,N.D.Dudey+	## 10030004	#dY:6.2%		
0.609	0.0155	0.000455	2.457e-5	#
1967,H.A.Grench+	## 11882002	#dY:5.4%		
0.609	0.0155	0.000499	7.485e-5	#
1967,H.A.Grench+	## 11882004	#dY:15.0%		
0.636	0.0179	0.000466	3.3e-5	#
1970,N.D.Dudey+	## 10030004	#dY:7.1%		
0.649	0.0426	0.000499	3.9e-5	#
1970,N.D.Dudey+	## 10030004	#dY:7.8%		
0.723	0.01985	0.000486	2.2e-5	#
1970,N.D.Dudey+	## 10030004	#dY:4.5%		
0.724	0.0155	0.000483	2.6082e-5	#
1967,H.A.Grench+	## 11882002	#dY:5.4%		
0.724	0.0155	0.000513	7.695e-5	#
1967,H.A.Grench+	## 11882004	#dY:15.0%		
0.783	0.0191	0.000511	3.2e-5	#
1970,N.D.Dudey+	## 10030004	#dY:6.3%		
0.824	0.017	0.000523	2.8242e-5	#
1967,H.A.Grench+	## 11882002	#dY:5.4%		
0.824	0.017	0.000548	8.22e-5	#
1967,H.A.Grench+	## 11882004	#dY:15.0%		
0.843	0.0189	0.000535	3.2e-5	#
1970,N.D.Dudey+	## 10030004	#dY:6.0%		
0.853	0.0459	0.000572	4.5e-5	#
1970,N.D.Dudey+	## 10030004	#dY:7.9%		
0.899	0.0156	0.000495	2.6e-5	#
1970,N.D.Dudey+	## 10030004	#dY:5.3%		
0.926	0.017	0.000477	2.5758e-5	#
1967,H.A.Grench+	## 11882002	#dY:5.4%		
0.926	0.017	0.00049	7.35e-5	#
1967,H.A.Grench+	## 11882004	#dY:15.0%		
0.943	0.02145	0.000401	2.7e-5	#
1970,N.D.Dudey+	## 10030004	#dY:6.7%		
0.976	0.0227	0.000417	2.6e-5	#
1970,N.D.Dudey+	## 10030004	#dY:6.2%		
1.027	0.015	0.000285	1.539e-5	#
1967,H.A.Grench+	## 11882002	#dY:5.4%		
1.027	0.015	0.000318	4.77e-5	#
1967,H.A.Grench+	## 11882004	#dY:15.0%		
1.043	0.023	0.000385	2.4e-5	#
1970,N.D.Dudey+	## 10030004	#dY:6.2%		
1.085	0.016	0.000319	1.7226e-5	#
1967,H.A.Grench+	## 11882002	#dY:5.4%		
1.085	0.016	0.000356	5.34e-5	#
1967,H.A.Grench+	## 11882004	#dY:15.0%		

1.106	0.02245	0.000324	2e-5	#
1970,N.D.Dudey+	## 10030004	#dY:6.2%		
1.182	0.02495	0.000286	1.8e-5	#
1970,N.D.Dudey+	## 10030004	#dY:6.3%		
1.223	0.017	0.000272	1.4688e-5	#
1967,H.A.Grench+	## 11882002	#dY:5.4%		
1.223	0.017	0.000305	4.575e-5	#
1967,H.A.Grench+	## 11882004	#dY:15.0%		
1.23	0.0381	0.000264	2.2e-5	#
1970,N.D.Dudey+	## 10030004	#dY:8.3%		
1.33	0.03485	0.000284	2e-5	#
1970,N.D.Dudey+	## 10030004	#dY:7.0%		
1.449	0.02565	0.000297	1.9e-5	#
1970,N.D.Dudey+	## 10030004	#dY:6.4%		
13.5	0.2	0.00039	2e-5	# 2010,Fengqun
Zhou+	## 32678002	#dY:5.1%		
14.1	0.1	0.00043	2e-5	# 2010,Fengqun
Zhou+	## 32678002	#dY:4.7%		
14.54	0.002	0.00054	6e-5	# 2019,I.Pasha+
## 33137004	#dY:11.1%			
14.6	0.2	0.0004	6e-5	#
1976,0.Schwerer+	## 20670009	#dY:15.0%		
14.6	0.2	0.00038	2e-5	# 2010,Fengqun
Zhou+	## 32678002	#dY:5.3%		
14.7	0.2	0.0011	0.0006	#
1963,E.T.Bramlitt+	## 11590035	#dY:54.5%		
14.7	0.15	0.00039	4e-5	#
1980,G.Magnusson+	## 21004007	#dY:10.3%		
14.8	0.4	0.0005	7e-5	#
1967,H.A.Grench+	## 11882006	#dY:14.0%		

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#name: 39-Y-89(N,EL)39-Y-89,,SIG

#X.axis: Incident Energy

#Y.axis: Cross Section

#wdata: 4

#ldata: 36

#data...

#	X	+dX	Y	+dY	# Comments...
#	MeV	MeV	barns	barns	#
Year,Author(s)		## EXFOR-ID			
0.0018	0	6.59	0.5	#	
1986,A.B.Popov+	## 40940003	#dY:7.6%			
0.0041	0	6.13	0.5	#	
1986,A.B.Popov+	## 40940003	#dY:8.2%			
0.0083	0	6.79	0.5	#	
1986,A.B.Popov+	## 40940003	#dY:7.4%			
0.0117	0	8.62	0.6	#	

1986,A.B.Popov+	## 40940003	#dY:7.0%		
0.0143	0	7.39	0.6	#
1986,A.B.Popov+	## 40940003	#dY:8.1%		
0.018	0	6.58	0.5	#
1986,A.B.Popov+	## 40940003	#dY:7.6%		
0.0231	0	7.71	0.6	#
1986,A.B.Popov+	## 40940003	#dY:7.8%		
0.0294	0	8.22	0.6	#
1986,A.B.Popov+	## 40940003	#dY:7.3%		
0.0411	0	7.25	0.5	#
1986,A.B.Popov+	## 40940003	#dY:6.9%		
0.0483	0	8.19	0.6	#
1986,A.B.Popov+	## 40940003	#dY:7.3%		
0.0584	0	8.72	0.6	#
1986,A.B.Popov+	## 40940003	#dY:6.9%		
0.072	0	9.38	0.7	#
1986,A.B.Popov+	## 40940003	#dY:7.5%		
0.096	0	7.94	0.6	#
1986,A.B.Popov+	## 40940003	#dY:7.6%		
0.12	0	8.2	0.6	#
1986,A.B.Popov+	## 40940003	#dY:7.3%		
0.138	0	9.02	0.7	#
1986,A.B.Popov+	## 40940003	#dY:7.8%		
0.164	0	8.66	0.6	#
1986,A.B.Popov+	## 40940003	#dY:6.9%		
0.201	0	7.97	0.5	#
1986,A.B.Popov+	## 40940003	#dY:6.3%		
0.253	0	8.41	0.6	#
1986,A.B.Popov+	## 40940003	#dY:7.1%		
0.325	0	8.56	0.6	#
1986,A.B.Popov+	## 40940003	#dY:7.0%		
0.442	0	8.44	0.6	#
1986,A.B.Popov+	## 40940003	#dY:7.1%		
0.8892	0.1	6.5777	0	# 1972,S.A.Cox+
## 10332090				
1.45	0.025	3.5	0.5	#
1959,N.A.Bostrom+	## 11130011	#dY:14.3%		
2.2	0	3.65	0	#
1958,H.H.Landon+	## 11717006			
2.35	0.035	3.11	0.1	#
1969,J.H.Towle	## 21331004	#dY:3.2%		
2.75	0	2.6065	0	#
1977,F.D.Mcdaniel+	## 10770027			
3.67	0.215	2.1	0	#
1959,N.A.Bostrom+	## 11130009			
3.77	0.035	2.1	0.08	#
1969,J.H.Towle	## 21331004	#dY:3.8%		
4.21	0.05	2.1	0	#
1959,N.A.Bostrom+	## 11130009			
4.7	0.045	2.9	0	#

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1959,N.A.Bostrom+      ## 11130009
      5.5      0.085      2.1077      0.15808      #
1970,F.G.Perey+      ## 10130022 #dY:7.5%
      6.04      0.115      2.3      0.4      #
1965,R.M.Wilenzick+   ## 11287014 #dY:17.4%
      6.44      0.065      2.3339      0.16804      #
1970,F.G.Perey+      ## 10130022 #dY:7.2%
      7.6      0.05      2.5459      0.18585      #
1970,F.G.Perey+      ## 10130022 #dY:7.3%
      8.56      0.04      2.5687      0.18751      #
1970,F.G.Perey+      ## 10130022 #dY:7.3%
      21.6      0.0375      1.465      0      #
1987,N.Olsson+      ## 22048021
      21.6      0      1.49      0      #
1985,N.Olsson+      ## 22617003
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#
#name: 39-Y-89(N,2N)39-Y-88,,SIG
#X.axis: Incident Energy
#Y.axis: Cross Section
#wdata: 4
#ldata: 196
#data...
#      X      +-dX      Y      +-dY      # Comments...
#      MeV      MeV      barns      barns      #
Year,Author(s)      ## EXFOR-ID
      11.38      0.3      0.0012      0.0001      #
1997,R.M.Klopries+   ## 31532002 #dY:8.3%
      11.86      0.33      0.1258      0.0108      #
1997,R.M.Klopries+   ## 31532002 #dY:8.6%
      11.88      0.085      0.05      0.008      #
2016,J.Frehaut+      ## 20416078 #dY:16.0%
      12.1      0.1      0.048      0.0096      #
1960,H.A.Tewes+      ## 11504008 #dY:20.0%
      12.3      0.1      0.061      0.0122      #
1960,H.A.Tewes+      ## 11504008 #dY:20.0%
      12.31      0.35      0.1894      0.0189      #
1997,R.M.Klopries+   ## 31532002 #dY:10.0%
      12.36      0.085      0.194      0.013      #
2016,J.Frehaut+      ## 20416078 #dY:6.7%
      12.4      0      0.231      0.032      #
1972,D.S.Mather+     ## 20795003 #dY:13.9%
      12.6      0.05      0.331      0.032      #
1976,S.K.Ghorai+     ## 10481002 #dY:9.7%
      12.68      0.1      0.28      0.025      #
1976,M.Bormann+      ## 20614011 #dY:8.9%
      12.693      0      0.3767      0      #
1994,S.Iwasaki+      ## 22752006

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12.8	0.1	0.239	0.0478	#
1960,H.A.Tewes+	## 11504008	#dY:20.0%		
12.81	0.065	0.381	0.022	# 1980,Huang
Jianzhou+	## 30614002	#dY:5.8%		
12.85	0.08	0.407	0.021	#
2016,J.Frehaut+	## 20416078	#dY:5.2%		
13	0.1	0.328	0.0656	#
1960,H.A.Tewes+	## 11504008	#dY:20.0%		
13.18	0.12	0.47	0.041	#
1976,M.Bormann+	## 20614011	#dY:8.7%		
13.28	0.35	0.5266	0.0527	#
1997,R.M.Klopries+	## 31532002	#dY:10.0%		
13.29	0.04	0.6219	0.0071	#
1971,A.Abboud+	## 30274002	#dY:1.1%		
13.3	0.05	0.603	0.058	#
1976,S.K.Ghorai+	## 10481002	#dY:9.6%		
13.33	0.075	0.607	0.041	#
2016,J.Frehaut+	## 20416078	#dY:6.8%		
13.36	0	0.617	0.027	# 1993,C.Konno+
## 22637034	#dY:4.4%			
13.4	0	0.629	0.025	# 2011,Chuanxin
Zhu+	## 32696004	#dY:4.0%		
13.436	0	0.73614	0	#
1994,S.Iwasaki+	## 22752006			
13.47	0	0.681	0.01934	#
2016,A.A.Filatenkov	## 41614055	#dY:2.8%		
13.5	0.3	0.762	0.036	# 2008,Fengqun
Zhou+	## 31649002	#dY:4.7%		
13.5	0.2	0.756	0.035	# 2016,Luo
Junhua+	## 32729002	#dY:4.6%		
13.51	0.08	0.702	0.03	# 1980,Huang
Jianzhou+	## 30614002	#dY:4.3%		
13.58	0	0.681	0.03	# 1993,C.Konno+
## 22637034	#dY:4.4%			
13.586	0.092	0.6864	0.0151	#
1989,M.Wagner+	## 30972004	#dY:2.2%		
13.586	0.092	0.7036	0.0108	#
1989,M.Wagner+	## 30972008	#dY:1.5%		
13.6	0.15	0.62	0.056	#
1976,M.Bormann+	## 20614011	#dY:9.0%		
13.64	0	0.729	0.021287	#
2016,A.A.Filatenkov	## 41614055	#dY:2.9%		
13.65	0.1	0.746	0.04	# 1980,Huang
Jianzhou+	## 30614002	#dY:5.4%		
13.69	0.11	0.755	0.041	# 1980,Huang
Jianzhou+	## 30614002	#dY:5.4%		
13.7	0	0.762	0.03	# 2011,Chuanxin
Zhu+	## 32696004	#dY:3.9%		
13.74	0	0.813	0.04065	#
1972,D.R.Nethaway	## 10312003	#dY:5.0%		

13.74	0	0.814	0.0407	#
1972,D.R.Nethaway	## 10312003	#dY:5.0%		
13.75	0.1	0.756	0.027	# 1981,P.Raics+
## 30604006	#dY:3.6%			
13.76	0	0.772	0.034	# 1993,C.Konno+
## 22637034	#dY:4.4%			
13.77	0	0.777	0.03885	#
1972,D.R.Nethaway	## 10312003	#dY:5.0%		
13.8	0.075	0.779	0.036	#
2016,J.Frehaut+	## 20416078	#dY:4.6%		
13.8	0.12	0.715	0.06	#
1997,R.M.Klopries+	## 31532002	#dY:8.4%		
13.85	0.1	0.584	0.1168	#
1960,H.A.Tewes+	## 11504008	#dY:20.0%		
13.87	0.055	0.8116	0.0431	#
1971,A.Abboud+	## 30274002	#dY:5.3%		
13.88	0	0.797	0.024229	#
2016,A.A.Filatenkov	## 41614055	#dY:3.0%		
13.99	0	0.831	0.036	# 1993,C.Konno+
## 22637034	#dY:4.3%			
14	0	0.857	0.04285	#
1972,D.R.Nethaway	## 10312003	#dY:5.0%		
14	0.2	0.82	0.079	#
1976,S.K.Ghorai+	## 10481002	#dY:9.6%		
14	0.1	0.678	0.1356	#
1960,H.A.Tewes+	## 11504008	#dY:20.0%		
14	0	1.35	0.3375	#
1963,B.Granger+	## 21514004	#dY:25.0%		
14	0.12	0.802	0.08	#
1998,N.I.Molla+	## 31494004	#dY:10.0%		
14.05	0.05	0.915	0.04575	#
1966,R.Rieder+	## 20033008	#dY:5.0%		
14.05	0	0.891	0.026641	#
2016,A.A.Filatenkov	## 41614055	#dY:3.0%		
14.06	0	0.825	0.032	#
1969,D.S.Mather+	## 20794011	#dY:3.9%		
14.09	0.035	0.899	0.039	# 1980,Huang
Jianzhou+	## 30614002	#dY:4.3%		
14.1	0.05	0.834	0.036	#
1975,B.P.Bayhurst+	## 10536008	#dY:4.3%		
14.1	0	0.54	0.08	#
1959,H.Vonach+	## 20087005	#dY:14.8%		
14.1	0.05	0.874	0.038	#
1981,J.Laurec+	## 21709002	#dY:4.3%		
14.1	0.2	0.84	0.035	# 2008,Fengqun
Zhou+	## 31649002	#dY:4.2%		
14.1	0	0.863	0.035	# 2011,Chuanxin
Zhu+	## 32696004	#dY:4.1%		
14.1	0.2	0.864	0.032	# 2016,Luo
Junhua+	## 32729002	#dY:3.7%		

14.12	0.08	0.832	0.03	# 1981,P.Raics+
## 30604006 #dY:3.6%				
14.13	0	0.891	0.04455	#
1972,D.R.Nethaway	## 10312003 #dY:5.0%			
14.13	0	0.9	0.045	#
1972,D.R.Nethaway	## 10312003 #dY:5.0%			
14.132	0.054	0.8471	0.0254	#
1989,M.Wagner+	## 30972004 #dY:3.0%			
14.132	0.054	0.8726	0.012	#
1989,M.Wagner+	## 30972008 #dY:1.4%			
14.15	0	0.908	0.0454	#
1972,D.R.Nethaway	## 10312003 #dY:5.0%			
14.15	0.1	0.815	0.045	#
1997,R.M.Klopries+	## 31532002 #dY:5.5%			
14.23	0	0.934	0.041	# 1993,C.Konno+
## 22637034 #dY:4.4%				
14.28	0.07	0.854	0.042	#
2016,J.Frehaut+	## 20416078 #dY:4.9%			
14.28	0	0.904	0.025222	#
2016,A.A.Filatenkov	## 41614055 #dY:2.8%			
14.41	0.18	0.823	0.085	#
1998,N.I.Molla+	## 31494004 #dY:10.3%			
14.42	0	0.997	0.04985	#
1972,D.R.Nethaway	## 10312003 #dY:5.0%			
14.44	0	0.968	0.042	# 1993,C.Konno+
## 22637034 #dY:4.3%				
14.45	0.12	0.93	0.034	# 1981,P.Raics+
## 30604006 #dY:3.7%				
14.45	0	0.935	0.037	# 2011,Chuanxin
Zhu+	## 32696004 #dY:4.0%			
14.47	0	0.96	0.02496	#
2016,A.A.Filatenkov	## 41614055 #dY:2.6%			
14.476	0.12	0.9179	0.0199	#
1989,M.Wagner+	## 30972004 #dY:2.2%			
14.476	0.12	0.9458	0.0142	#
1989,M.Wagner+	## 30972008 #dY:1.5%			
14.5	0.1	0.685	0.137	#
1960,H.A.Tewes+	## 11504008 #dY:20.0%			
14.5	0.2	0.929	0.013935	#
1987,L.R.Greenwood	## 12977017 #dY:1.5%			
14.5	0.2	0.972	0.016	#
2002,S.V.Begun+	## 32205012 #dY:1.6%			
14.51	0.21	0.888	0.011	#
1975,W.Mannhart+	## 20611010 #dY:1.2%			
14.52	0	1.019	0.05095	#
1972,D.R.Nethaway	## 10312003 #dY:5.0%			
14.52	0	1.02	0.051	#
1972,D.R.Nethaway	## 10312003 #dY:5.0%			
14.54	0.002	1.0056	0.10169	# 2019,I.Pasha+
## 33137005 #dY:10.1%				

14.542	0	0.98116	0	#
1994,S.Iwasaki+	## 22752006			
14.56	0.2	0.93	0.084	#
1976,M.Bormann+	## 20614011	#dY:9.0%		
14.6	0	0.962	0.078	#
1979,K.Kayashima+	## 21300016	#dY:8.1%		
14.6	0.3	0.95	0.075	#
2008,H.M.Agrawal+	## 23031004	#dY:7.9%		
14.6	0.2	0.542	0.058	#
1962,P.Strohal+	## 30008012	#dY:10.7%		
14.6	0	0.572	0.065	#
1973,J.Araminowicz+	## 30264026	#dY:11.4%		
14.6	0.2	0.877	0.029	#
1984,M.Berrada	## 30805003	#dY:3.3%		
14.6	0.3	0.962	0.045	# 2008,Fengqun
Zhou+	## 31649002	#dY:4.7%		
14.6	0	0.948	0.015	#
2000,S.V.Begun+	## 32204002	#dY:1.6%		
14.61	0.055	0.8563	0.0587	#
1971,A.Abboud+	## 30274002	#dY:6.9%		
14.61	0.105	1.018	0.034	# 1980,Huang
Jianzhou+	## 30614002	#dY:3.3%		
14.63	0.16	0.915	0.095	#
1998,N.I.Molla+	## 31494004	#dY:10.4%		
14.64	0	1.038	0.0519	#
1972,D.R.Nethaway	## 10312003	#dY:5.0%		
14.65	0	0.959	0.038	# 2011,Chuanxin
Zhu+	## 32696004	#dY:4.0%		
14.67	0.17	0.945	0.04	#
1997,R.M.Klopries+	## 31532002	#dY:4.2%		
14.68	0	1.011	0.044	# 1993,C.Konno+
## 22637034	#dY:4.4%			
14.68	0	0.98	0.027048	#
2016,A.A.Filatenkov	## 41614055	#dY:2.8%		
14.7	0.075	1.029	0.055	#
1977,L.R.Veeser+	## 10445004	#dY:5.3%		
14.7	0.1	1.015	0.05075	#
1966,R.Rieder+	## 20033008	#dY:5.0%		
14.7	0.075	1.052	0.053	#
1966,D.G.Vallis	## 20347004	#dY:5.0%		
14.7	0.3	0.907	0.068	#
1974,S.M.Qaim+	## 20513008	#dY:7.5%		
14.7	0.115	1.048	0.052	# 1980,Huang
Jianzhou+	## 30614002	#dY:5.0%		
14.71	0.12	0.966	0.1	#
1998,N.I.Molla+	## 31494004	#dY:10.4%		
14.76	0.065	0.941	0.071	#
2016,J.Frehaut+	## 20416078	#dY:7.5%		
14.789	0.21	1.0158	0.0218	#
1989,M.Wagner+	## 30972004	#dY:2.1%		

14.789	0.21	1.0098	0.0143	#
1989,M.Wagner+	## 30972008	#dY:1.4%		
14.8	0.15	0.984	0.043	#
1981,J.Laurec+	## 21709002	#dY:4.4%		
14.8	0.16	0.975	0.043	# 1981,P.Raics+
## 30604006	#dY:4.4%			
14.8	0	0.983	0.039	# 2011,Chuanxin
Zhu+	## 32696004	#dY:4.0%		
14.8	0.2	0.992	0.041	# 2016,Luo
Junhua+	## 32729002	#dY:4.1%		
14.81	0	1.051	0.05255	#
1972,D.R.Nethaway	## 10312003	#dY:5.0%		
14.83	0	1.069	0.05345	#
1972,D.R.Nethaway	## 10312003	#dY:5.0%		
14.86	0	1.042	0.027509	#
2016,A.A.Filatenkov	## 41614055	#dY:2.6%		
14.89	0	1.052	0.0526	#
1972,D.R.Nethaway	## 10312003	#dY:5.0%		
14.9	0.15	1.04	0.1	#
1976,S.K.Ghorai+	## 10481002	#dY:9.6%		
14.9	0.2	0.991	0.014865	#
1987,L.R.Greenwood	## 12977017	#dY:1.5%		
14.92	0	1.059	0.05295	#
1972,D.R.Nethaway	## 10312003	#dY:5.0%		
14.95	0	1.071	0.047	# 1993,C.Konno+
## 22637034	#dY:4.4%			
14.96	0	1.069	0.05345	#
1972,D.R.Nethaway	## 10312003	#dY:5.0%		
14.96	0.03	1.076	0.048	# 1980,Huang
Jianzhou+	## 30614002	#dY:4.5%		
14.99	0	1.01	0.1515	#
1967,J.Csikai+	## 30033005	#dY:15.0%		
15.1	0.15	1.072	0.103	#
1976,S.K.Ghorai+	## 10481002	#dY:9.6%		
15.1	0.1	1.003	0.2006	#
1960,H.A.Tewes+	## 11504008	#dY:20.0%		
15.27	0.075	1.0404	0.0188	#
1971,A.Abboud+	## 30274002	#dY:1.8%		
15.35	0.2	1.03	0.092	#
1976,M.Bormann+	## 20614011	#dY:8.9%		
15.68	0.155	1.156	0.06	# 1980,Huang
Jianzhou+	## 30614002	#dY:5.2%		
15.71	0.07	0.9479	0.046	#
1971,A.Abboud+	## 30274002	#dY:4.9%		
15.808	0	1.0479	0	#
1994,S.Iwasaki+	## 22752006			
16	0.1	1.185	0.064	#
1977,L.R.Veeser+	## 10445004	#dY:5.4%		
16	0.2	1.172	0.112	#
1976,S.K.Ghorai+	## 10481002	#dY:9.6%		

16	0	1.125	0.2925	#
1961,O.M.Hudson Jr+	## 11844002	#dY:26.0%		
16.08	0.09	0.9543	0.0409	#
1971,A.Abboud+	## 30274002	#dY:4.3%		
16.08	0.165	1.204	0.062	# 1980,Huang
Jianzhou+	## 30614002	#dY:5.1%		
16.15	0.17	1.11	0.1	#
1976,M.Bormann+	## 20614011	#dY:9.0%		
16.22	0.1	1.104	0.048	#
1975,B.P.Bayhurst+	## 10536009	#dY:4.3%		
16.22	0.1	1.113	0.048	#
1975,B.P.Bayhurst+	## 10536009	#dY:4.3%		
16.63	0.15	1.257	0.064	# 1980,Huang
Jianzhou+	## 30614002	#dY:5.1%		
16.7	0.25	1.221	0.117	#
1976,S.K.Ghorai+	## 10481002	#dY:9.6%		
16.74	0.075	0.9974	0.0351	#
1971,A.Abboud+	## 30274002	#dY:3.5%		
16.867	0	1.2221	0	#
1994,S.Iwasaki+	## 22752006			
16.89	0.17	1.12	0.101	#
1976,M.Bormann+	## 20614011	#dY:9.0%		
17	0.1	1.222	0.067	#
1977,L.R.Veeser+	## 10445004	#dY:5.5%		
17.2	0.14	1.27	0.068	# 1980,Huang
Jianzhou+	## 30614002	#dY:5.4%		
17.24	0.17	1.198	0.051	#
1975,B.P.Bayhurst+	## 10536008	#dY:4.3%		
17.4	0.5	1.42	0.14	#
2014,V.Wagner+	## 31723005	#dY:9.9%		
17.4	0.5	1.2	0.12	#
2014,V.Wagner+	## 31723005	#dY:10.0%		
17.4	0.9	1.27	0.14	#
2018,P.Chudoba+	## 31787002	#dY:11.0%		
17.5	1	1.12	0.1	#
2022,J.Jarosik+	## 31842006	#dY:8.9%		
17.51	0.14	1.16	0.095	#
1976,M.Bormann+	## 20614011	#dY:8.2%		
17.55	0	1.1628	0.047	# 1996,Y.Uno+
## 23279014	#dY:4.0%			
17.58	0.045	1.128	0.072	#
1971,A.Abboud+	## 30274002	#dY:6.4%		
17.8	0.35	1.218	0.117	#
1976,S.K.Ghorai+	## 10481002	#dY:9.6%		
18	0.075	1.207	0.066	#
1977,L.R.Veeser+	## 10445004	#dY:5.5%		
18	0.15	1.287	0.066	# 1980,Huang
Jianzhou+	## 30614002	#dY:5.1%		
18.208	0	1.1923	0	#
1994,S.Iwasaki+	## 22752006			

18.24	0.09	1.147	0.058	#
1975,B.P.Bayhurst+	## 10536008	#dY:5.1%		
19	0.075	1.209	0.061	#
1977,L.R.Veeser+	## 10445004	#dY:5.0%		
19.128	0	1.2134	0	#
1994,S.Iwasaki+	## 22752006			
19.427	0	1.2403	0	#
1994,S.Iwasaki+	## 22752006			
19.8	0.9	1.11	0.11	#
2022,J.Jarosik+	## 31842006	#dY:9.9%		
19.84	0	1.1393	0.046	# 1996,Y.Uno+
## 23279014	#dY:4.0%			
20	0.055	1.261	0.066	#
1977,L.R.Veeser+	## 10445004	#dY:5.2%		
20	0.1	1.265	0.054	#
1975,B.P.Bayhurst+	## 10536008	#dY:4.3%		
21	0.06	1.214	0.066	#
1977,L.R.Veeser+	## 10445004	#dY:5.4%		
21.27	0.17	1.206	0.061	#
1975,B.P.Bayhurst+	## 10536008	#dY:5.1%		
22	0.05	1.156	0.059	#
1977,L.R.Veeser+	## 10445004	#dY:5.1%		
22.03	0.12	1.141	0.049	#
1975,B.P.Bayhurst+	## 10536008	#dY:4.3%		
22.66	0	1.0794	0.0469	# 1996,Y.Uno+
## 23279014	#dY:4.3%			
23	0.035	1.105	0.083	#
1977,L.R.Veeser+	## 10445004	#dY:7.5%		
23.34	0.13	1.15	0.068	#
1975,B.P.Bayhurst+	## 10536008	#dY:5.9%		
24	0.03	1.042	0.105	#
1977,L.R.Veeser+	## 10445004	#dY:10.1%		
24.5	0.12	1.004	0.043	#
1975,B.P.Bayhurst+	## 10536008	#dY:4.3%		
24.5	0.7	0.98	0.1	#
2014,V.Wagner+	## 31723005	#dY:10.2%		
24.5	0.7	0.93	0.1	#
2014,V.Wagner+	## 31723005	#dY:10.8%		
24.5	0.8	0.95	0.1	#
2018,P.Chudoba+	## 31787002	#dY:10.5%		
24.99	0	0.9739	0.0395	# 1996,Y.Uno+
## 23279014	#dY:4.1%			
26.07	0.12	0.793	0.047	#
1975,B.P.Bayhurst+	## 10536010	#dY:5.9%		
27.5	0.7	0.58	0.09	#
2022,J.Jarosik+	## 31842006	#dY:15.5%		
27.79	0	0.5716	0.0237	# 1996,Y.Uno+
## 23279014	#dY:4.1%			
28.06	0.13	0.571	0.039	#
1975,B.P.Bayhurst+	## 10536009	#dY:6.8%		

28.7	0.6	0.49	0.05	#
2014,V.Wagner+	## 31723005	#dY:10.2%		
28.7	0.6	0.47	0.05	#
2014,V.Wagner+	## 31723005	#dY:10.6%		
28.7	0.8	0.48	0.05	#
2018,P.Chudoba+	## 31787002	#dY:10.4%		
29.1	0	0.4946	0.0703	# 2020,D.Kral+
## 31834013	#dY:14.2%			
30.09	0	0.3664	0.015	# 1996,Y.Uno+
## 23279014	#dY:4.1%			
32.5	0.6	0.31	0.11	#
2014,V.Wagner+	## 31723005	#dY:35.5%		
33.5	0.5	0.34	0.03	#
2014,V.Wagner+	## 31723005	#dY:8.8%		
33.5	0.5	0.32	0.04	#
2014,V.Wagner+	## 31723005	#dY:12.5%		
33.5	0.8	0.33	0.04	#
2018,P.Chudoba+	## 31787002	#dY:12.1%		
59	0.2	0.18	0.06	#
2013,J.Vrzalova+	## 31714040	#dY:33.3%		

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#

#name: 39-Y-89(N,2N)39-Y-88-L1,,SIG

#X.axis: Incident Energy

#Y.axis: Cross Section

#wdata: 4

#ldata: 9

#data...

#	X	+dX	Y	+dY	# Comments...
#	MeV	MeV	barns	barns	#
Year,Author(s)		## EXFOR-ID			
11.882	0.464	0.0017	0.0013	#	
2003,P.E.Garrett+	## 14211004	#dY:76.5%			
12.776	0.519	0.0511	0.0036	#	
2003,P.E.Garrett+	## 14211004	#dY:7.0%			
13.774	0.58	0.1239	0.007	#	
2003,P.E.Garrett+	## 14211004	#dY:5.6%			
14.7	0.25	0.4	0	#	
1961,V.L.Glagolev+	## 40789002				
14.8	0	0.096	0.008	#	
1975,P.K.Eapen+	## 10493008	#dY:8.3%			
14.915	0.663	0.1776	0.0104	#	
2003,P.E.Garrett+	## 14211004	#dY:5.9%			
16.205	0.743	0.2136	0.0158	#	
2003,P.E.Garrett+	## 14211004	#dY:7.4%			
17.637	0.852	0.2273	0.02	#	
2003,P.E.Garrett+	## 14211004	#dY:8.8%			
19.28	0.92	0.22	0.0209	#	

2003,P.E.Garrett+ ## 14211004 #dY:9.5%

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#

#name: 39-Y-89(N,2N)39-Y-88-L2,,SIG

#X.axis: Incident Energy

#Y.axis: Cross Section

#wdata: 4

#ldata: 9

#data...

#	X	+dX	Y	+dY	# Comments...
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#	MeV	MeV	barns	barns	#
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Year,Author(s)	##	EXFOR-ID			
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11.882	0.464	0.0001	0	#
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2003,P.E.Garrett+	##	14211005			
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12.776	0.519	0.0068	0.0007	#
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2003,P.E.Garrett+	##	14211005	#dY:10.3%		
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13.774	0.58	0.031	0.0032	#
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2003,P.E.Garrett+	##	14211005	#dY:10.3%		
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14.7	0	0.103	0.015	#
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1979,K.C.Garg+	##	30534003	#dY:14.6%		
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14.8	0	0.227	0.018	#
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1975,P.K.Eapen+	##	10493008	#dY:7.9%		
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14.915	0.663	0.0665	0.0073	#
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2003,P.E.Garrett+	##	14211005	#dY:11.0%		
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16.205	0.743	0.1028	0.0153	#
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2003,P.E.Garrett+	##	14211005	#dY:14.9%		
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17.637	0.852	0.1309	0.0242	#
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2003,P.E.Garrett+	##	14211005	#dY:18.5%		
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19.28	0.92	0.1509	0.0308	#
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2003,P.E.Garrett+	##	14211005	#dY:20.4%		
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#

#name: 39-Y-89(N,2N)39-Y-88-G,,SIG

#X.axis: Incident Energy

#Y.axis: Cross Section

#wdata: 4

#ldata: 8

#data...

#	X	+dX	Y	+dY	# Comments...
---	---	-----	---	-----	---------------

#	MeV	MeV	barns	barns	#
---	-----	-----	-------	-------	---

Year,Author(s)	##	EXFOR-ID			
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11.882	0.464	0.0657	0.0043	#
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2003,P.E.Garrett+	##	14211003	#dY:6.5%		
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12.776	0.519	0.3498	0.0224	#
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2003,P.E.Garrett+	##	14211003	#dY:6.4%		
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13.774	0.58	0.5909	0.0327	#
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2003,P.E.Garrett+      ## 14211003  #dY:5.5%
    14.8                0          1.292      0.103  #
1975,P.K.Eapen+        ## 10493008  #dY:8.0%
    14.915              0.663      0.7877      0.04  #
2003,P.E.Garrett+      ## 14211003  #dY:5.1%
    16.205              0.743      0.8808      0.0455 #
2003,P.E.Garrett+      ## 14211003  #dY:5.2%
    17.637              0.852      0.9124      0.0508 #
2003,P.E.Garrett+      ## 14211003  #dY:5.6%
    19.28               0.92       0.9205      0.0545 #
2003,P.E.Garrett+      ## 14211003  #dY:5.9%
//
#-----
#
#name: 39-Y-89(N,INL)39-Y-89-M,,SIG
#X.axis: Incident Energy
#Y.axis: Cross Section
#wdata: 4
#ldata: 140
#data...
#           X           +-dX           Y           +-dY  # Comments...
#           MeV        MeV          barns        barns  #
Year,Author(s)      ## EXFOR-ID
    0.83            0          0.002          0  #
1955,C.P.Swann+     ## 11862002
    0.94            0          0.023          0  #
1955,C.P.Swann+     ## 11862002
    0.99            0          0.045          0  #
1955,C.P.Swann+     ## 11862002
    1.01           0.012      0.099          0.01  #
2003,P.E.Garrett+    ## 14211002  #dY:10.1%
    1.031           0.011      0.111          0.011 #
2003,P.E.Garrett+    ## 14211002  #dY:9.9%
    1.04            0          0.065          0  #
1955,C.P.Swann+     ## 11862002
    1.053           0.013      0.122          0.012 #
2003,P.E.Garrett+    ## 14211002  #dY:9.8%
    1.075           0.013      0.132          0.013 #
2003,P.E.Garrett+    ## 14211002  #dY:9.8%
    1.09            0          0.076          0  #
1955,C.P.Swann+     ## 11862002
    1.101           0.013      0.143          0.014 #
2003,P.E.Garrett+    ## 14211002  #dY:9.8%
    1.122           0.013      0.154          0.015 #
2003,P.E.Garrett+    ## 14211002  #dY:9.7%
    1.14            0          0.088          0  #
1955,C.P.Swann+     ## 11862002
    1.148           0.014      0.168          0.017 #
2003,P.E.Garrett+    ## 14211002  #dY:10.1%

```

1.174	0.014	0.178	0.018	#
2003,P.E.Garrett+	## 14211002	#dY:10.1%		
1.19	0	0.097	0	#
1955,C.P.Swann+	## 11862002			
1.2	0.015	0.191	0.019	#
2003,P.E.Garrett+	## 14211002	#dY:9.9%		
1.228	0.015	0.203	0.02	#
2003,P.E.Garrett+	## 14211002	#dY:9.9%		
1.24	0	0.123	0	#
1955,C.P.Swann+	## 11862002			
1.255	0.015	0.214	0.021	#
2003,P.E.Garrett+	## 14211002	#dY:9.8%		
1.283	0.016	0.226	0.022	#
2003,P.E.Garrett+	## 14211002	#dY:9.7%		
1.29	0	0.143	0	#
1955,C.P.Swann+	## 11862002			
1.314	0.017	0.239	0.024	#
2003,P.E.Garrett+	## 14211002	#dY:10.0%		
1.34	0	0.16	0	#
1955,C.P.Swann+	## 11862002			
1.346	0.018	0.251	0.025	#
2003,P.E.Garrett+	## 14211002	#dY:10.0%		
1.379	0.018	0.261	0.026	#
2003,P.E.Garrett+	## 14211002	#dY:10.0%		
1.395	0	0.177	0	#
1955,C.P.Swann+	## 11862002			
1.412	0.019	0.273	0.027	#
2003,P.E.Garrett+	## 14211002	#dY:9.9%		
1.445	0	0.187	0	#
1955,C.P.Swann+	## 11862002			
1.447	0.019	0.281	0.028	#
2003,P.E.Garrett+	## 14211002	#dY:10.0%		
1.483	0.021	0.292	0.029	#
2003,P.E.Garrett+	## 14211002	#dY:9.9%		
1.495	0.09	0.183	0	#
1955,C.P.Swann+	## 11862002			
1.522	0.021	0.301	0.03	#
2003,P.E.Garrett+	## 14211002	#dY:10.0%		
1.545	0	0.19	0	#
1955,C.P.Swann+	## 11862002			
1.56	0.022	0.304	0.03	#
2003,P.E.Garrett+	## 14211002	#dY:9.9%		
1.595	0	0.185	0	#
1955,C.P.Swann+	## 11862002			
1.6	0.023	0.311	0.031	#
2003,P.E.Garrett+	## 14211002	#dY:10.0%		
1.644	0.024	0.316	0.031	#
2003,P.E.Garrett+	## 14211002	#dY:9.8%		
1.645	0	0.193	0	#
1955,C.P.Swann+	## 11862002			

1.687	0.025	0.319	0.031	#
2003, P.E. Garrett+	## 14211002	#dY:9.7%		
1.695	0	0.228	0	#
1955, C.P. Swann+	## 11862002			
1.733	0.026	0.322	0.031	#
2003, P.E. Garrett+	## 14211002	#dY:9.6%		
1.74	0	0.253	0	#
1955, C.P. Swann+	## 11862002			
1.781	0.027	0.322	0.031	#
2003, P.E. Garrett+	## 14211002	#dY:9.6%		
1.83	0.027	0.319	0.031	#
2003, P.E. Garrett+	## 14211002	#dY:9.7%		
1.883	0.029	0.317	0.031	#
2003, P.E. Garrett+	## 14211002	#dY:9.8%		
1.935	0.03	0.316	0.031	#
2003, P.E. Garrett+	## 14211002	#dY:9.8%		
1.991	0.032	0.315	0.031	#
2003, P.E. Garrett+	## 14211002	#dY:9.8%		
2.051	0.033	0.316	0.031	#
2003, P.E. Garrett+	## 14211002	#dY:9.8%		
2.09	0.05	0.205	0.01517	#
2004, T. Shimizu+	## 22838005	#dY:7.4%		
2.113	0.034	0.317	0.031	#
2003, P.E. Garrett+	## 14211002	#dY:9.8%		
2.177	0.036	0.315	0.031	#
2003, P.E. Garrett+	## 14211002	#dY:9.8%		
2.243	0.037	0.32	0.031	#
2003, P.E. Garrett+	## 14211002	#dY:9.7%		
2.27	0.05	0.271	0.018428	#
2004, T. Shimizu+	## 22838005	#dY:6.8%		
2.314	0.04	0.353	0.031	#
2003, P.E. Garrett+	## 14211002	#dY:8.8%		
2.388	0.042	0.385	0.031	#
2003, P.E. Garrett+	## 14211002	#dY:8.1%		
2.46	0.05	0.29	0.01798	#
2004, T. Shimizu+	## 22838005	#dY:6.2%		
2.465	0.043	0.408	0.031	#
2003, P.E. Garrett+	## 14211002	#dY:7.6%		
2.546	0.046	0.437	0.013	#
2003, P.E. Garrett+	## 14211002	#dY:3.0%		
2.633	0.048	0.466	0.03	#
2003, P.E. Garrett+	## 14211002	#dY:6.4%		
2.69	0.05	0.438	0.028032	#
2004, T. Shimizu+	## 22838005	#dY:6.4%		
2.69	0.04	0.4058	0.0436	#
1971, A. Abboud+	## 30274003	#dY:10.7%		
2.721	0.05	0.521	0.031	#
2003, P.E. Garrett+	## 14211002	#dY:6.0%		
2.8	0.035	0.251	0.03263	#
1967, K.G. Broadhead+	## 11850003	#dY:13.0%		

2.815	0.053	0.56	0.032	#
2003,P.E.Garrett+	## 14211002	#dY:5.7%		
2.9	0.05	0.43	0.02709	#
2004,T.Shimizu+	## 22838005	#dY:6.3%		
2.914	0.056	0.587	0.032	#
2003,P.E.Garrett+	## 14211002	#dY:5.5%		
3.02	0.059	0.606	0.033	#
2003,P.E.Garrett+	## 14211002	#dY:5.4%		
3.09	0.05	0.475	0.025175	#
2004,T.Shimizu+	## 22838005	#dY:5.3%		
3.128	0.062	0.655	0.035	#
2003,P.E.Garrett+	## 14211002	#dY:5.3%		
3.246	0.067	0.639	0.034	#
2003,P.E.Garrett+	## 14211002	#dY:5.3%		
3.31	0.05	0.5316	0.0232	#
1971,A.Abboud+	## 30274003	#dY:4.4%		
3.371	0.069	0.625	0.033	#
2003,P.E.Garrett+	## 14211002	#dY:5.3%		
3.498	0.074	0.639	0.033	#
2003,P.E.Garrett+	## 14211002	#dY:5.2%		
3.639	0.078	0.687	0.036	#
2003,P.E.Garrett+	## 14211002	#dY:5.2%		
3.784	0.083	0.752	0.039	#
2003,P.E.Garrett+	## 14211002	#dY:5.2%		
3.83	0.05	0.5985	0.0113	#
1971,A.Abboud+	## 30274003	#dY:1.9%		
3.939	0.088	0.8	0.042	#
2003,P.E.Garrett+	## 14211002	#dY:5.2%		
4.01	0.055	0.6278	0.0119	#
1971,A.Abboud+	## 30274003	#dY:1.9%		
4.107	0.093	0.786	0.042	#
2003,P.E.Garrett+	## 14211002	#dY:5.3%		
4.279	0.099	0.761	0.041	#
2003,P.E.Garrett+	## 14211002	#dY:5.4%		
4.469	0.107	0.767	0.042	#
2003,P.E.Garrett+	## 14211002	#dY:5.5%		
4.667	0.114	0.778	0.043	#
2003,P.E.Garrett+	## 14211002	#dY:5.5%		
4.882	0.12	0.851	0.048	#
2003,P.E.Garrett+	## 14211002	#dY:5.6%		
5.111	0.131	0.899	0.052	#
2003,P.E.Garrett+	## 14211002	#dY:5.8%		
5.357	0.14	0.929	0.054	#
2003,P.E.Garrett+	## 14211002	#dY:5.8%		
5.62	0.15	0.941	0.055	#
2003,P.E.Garrett+	## 14211002	#dY:5.8%		
5.902	0.16	0.971	0.057	#
2003,P.E.Garrett+	## 14211002	#dY:5.9%		
6.18	0.16	0.983	0.092	# 1998,R.Doczi+
## 22452002	#dY:9.4%			

6.208	0.176	0.996	0.059	#
2003,P.E.Garrett+	## 14211002	#dY:5.9%		
6.54	0.189	1.047	0.062	#
2003,P.E.Garrett+	## 14211002	#dY:5.9%		
6.897	0.203	1.061	0.063	#
2003,P.E.Garrett+	## 14211002	#dY:5.9%		
7.281	0.221	1.05	0.062	#
2003,P.E.Garrett+	## 14211002	#dY:5.9%		
7.47	0.125	1.15	0.22	# 1998,R.Doczi+
## 22452002	#dY:19.1%			
7.699	0.241	1.036	0.062	#
2003,P.E.Garrett+	## 14211002	#dY:6.0%		
8.17	0.267	1.067	0.064	#
2003,P.E.Garrett+	## 14211002	#dY:6.0%		
8.17	0.13	1.16	0.2	# 1998,R.Doczi+
## 22452002	#dY:17.2%			
8.23	0.12	1.31	0.11	# 1998,R.Doczi+
## 22452002	#dY:8.4%			
8.666	0.284	1.056	0.063	#
2003,P.E.Garrett+	## 14211002	#dY:6.0%		
9.2	0.145	1.2	0.38	# 1998,R.Doczi+
## 22452002	#dY:31.7%			
9.212	0.318	1.042	0.062	#
2003,P.E.Garrett+	## 14211002	#dY:6.0%		
9.821	0.348	1.047	0.063	#
2003,P.E.Garrett+	## 14211002	#dY:6.0%		
9.95	0.17	1.13	0.09	# 1998,R.Doczi+
## 22452002	#dY:8.0%			
10.15	0.16	1.11	0.4	# 1998,R.Doczi+
## 22452002	#dY:36.0%			
10.24	0.115	1.24	0.09	# 1998,R.Doczi+
## 22452002	#dY:7.3%			
10.477	0.381	1.034	0.062	#
2003,P.E.Garrett+	## 14211002	#dY:6.0%		
11.04	0.175	1.06	0.31	# 1998,R.Doczi+
## 22452002	#dY:29.2%			
11.21	0.12	1.16	0.1	# 1998,R.Doczi+
## 22452002	#dY:8.6%			
11.216	0.428	1.076	0.064	#
2003,P.E.Garrett+	## 14211002	#dY:5.9%		
12.036	0.473	1.027	0.062	#
2003,P.E.Garrett+	## 14211002	#dY:6.0%		
12.36	0.2	1.01	0.25	# 1998,R.Doczi+
## 22452002	#dY:24.8%			
12.949	0.529	0.8	0.048	#
2003,P.E.Garrett+	## 14211002	#dY:6.0%		
12.99	0.07	0.5528	0.0132	#
1971,A.Abboud+	## 30274004	#dY:2.4%		
13.29	0.04	0.4589	0.0108	#
1971,A.Abboud+	## 30274004	#dY:2.4%		

13.55	0.04	0.4588	0.0108	#
1971, A. Abboud+	## 30274004	#dY:2.4%		
13.87	0.055	0.4023	0.0084	#
1971, A. Abboud+	## 30274004	#dY:2.1%		
13.967	0.594	0.555	0.033	#
2003, P. E. Garrett+	## 14211002	#dY:5.9%		
14.19	0.035	0.3814	0.0131	#
1971, A. Abboud+	## 30274004	#dY:3.4%		
14.54	0.08	0.3522	0.043	#
1971, A. Abboud+	## 30274004	#dY:12.2%		
14.55	0.1	0.465	0.056	# 1998, R. Doczi+
## 22452002	#dY:12.0%			
14.6	0.15	0.4	0.047	#
1965, K. G. Broadhead+	## 11874002	#dY:11.7%		
14.6	0.3	0.451	0.022	#
2008, H. M. Agrawal+	## 23031003	#dY:4.9%		
14.7	0.05	0.524	0.05764	#
1968, P. Bornemisza-Paus	## 20082003	#dY:11.0%		
14.7	0.05	0.404	0.059	# 1998, R. Doczi+
## 22452002	#dY:14.6%			
14.8	0	0.438	0.044	#
1971, E. Rurarz+	## 30156004	#dY:10.0%		
14.83	0.075	0.3501	0.0084	#
1971, A. Abboud+	## 30274004	#dY:2.4%		
15	0.3	0.594	0.13	# 1968, G. Peto+
## 30069002	#dY:21.9%			
15.08	0.09	0.2989	0.0131	#
1971, A. Abboud+	## 30274004	#dY:4.4%		
15.138	0.677	0.363	0.022	#
2003, P. E. Garrett+	## 14211002	#dY:6.1%		
15.2	0	0.434	0.052	#
1976, C. G. Hudson+	## 10690002	#dY:12.0%		
15.27	0.09	0.2717	0.0061	#
1971, A. Abboud+	## 30274004	#dY:2.2%		
15.42	0.09	0.2832	0.0251	#
1971, A. Abboud+	## 30274004	#dY:8.9%		
15.94	0.09	0.2351	0.0274	#
1971, A. Abboud+	## 30274004	#dY:11.7%		
16.31	0.095	0.2372	0.0478	#
1971, A. Abboud+	## 30274004	#dY:20.2%		
16.451	0.757	0.271	0.017	#
2003, P. E. Garrett+	## 14211002	#dY:6.3%		
16.65	0.115	0.2633	0.0243	#
1971, A. Abboud+	## 30274004	#dY:9.2%		
17.08	0.045	0.3093	0.0298	#
1971, A. Abboud+	## 30274004	#dY:9.6%		
17.58	0.045	0.2811	0.0175	#
1971, A. Abboud+	## 30274004	#dY:6.2%		
17.926	0.881	0.222	0.014	#
2003, P. E. Garrett+	## 14211002	#dY:6.3%		

18.07	0.065	0.1736	0.012	#
1971,A.Abboud+	## 30274004	#dY:6.9%		
19.57	0.939	0.199	0.013	#
2003,P.E.Garrett+	## 14211002	#dY:6.5%		

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#

#name: 39-Y-89(N,G)39-Y-90,,SIG

#X.axis: Incident Energy

#Y.axis: Cross Section

#wdata: 4

#ldata: 138

#data...

#	X	+dX	Y	+dY	# Comments...
#	MeV	MeV	barns	barns	#
Year,Author(s)		## EXFOR-ID			
2.53e-8		0	1.21	0.00363	#
1971,T.B.Ryves		## 20791008	#dY:0.3%		
2.53e-8		0	1.25	0.2	#
1951,P.Benoist+		## 21420008	#dY:16.0%		
7e-5		0	0.0225	0.00225	#
1966,A.A.Bergman+		## 40056002	#dY:10.0%		
8.5e-5		0	0.021	0.0021	#
1966,A.A.Bergman+		## 40056002	#dY:10.0%		
0.00011		0	0.019	0.0019	#
1966,A.A.Bergman+		## 40056002	#dY:10.0%		
0.00012		0	0.022	0.0022	#
1966,A.A.Bergman+		## 40056002	#dY:10.0%		
0.000135		0	0.027	0.0027	#
1966,A.A.Bergman+		## 40056002	#dY:10.0%		
0.00015		0	0.024	0.0024	#
1966,A.A.Bergman+		## 40056002	#dY:10.0%		
0.00025		0	0.024	0.0024	#
1966,A.A.Bergman+		## 40056002	#dY:10.0%		
0.00028		0	0.035	0.0035	#
1966,A.A.Bergman+		## 40056002	#dY:10.0%		
0.00032		0	0.044	0.0044	#
1966,A.A.Bergman+		## 40056002	#dY:10.0%		
0.00036		0	0.044	0.0044	#
1966,A.A.Bergman+		## 40056002	#dY:10.0%		
0.0004		0	0.04	0.004	#
1966,A.A.Bergman+		## 40056002	#dY:10.0%		
0.00044		0	0.036	0.0036	#
1966,A.A.Bergman+		## 40056002	#dY:10.0%		
0.0005		0	0.031	0.0031	#
1966,A.A.Bergman+		## 40056002	#dY:10.0%		
0.00054		0	0.03	0.0018	#
1966,A.A.Bergman+		## 40056002	#dY:6.0%		
0.0006		0	0.03	0.0018	#

1966,A.A.Bergman+	## 40056002	#dY:6.0%		
0.00065	0	0.038	0.00228	#
1966,A.A.Bergman+	## 40056002	#dY:6.0%		
0.00075	0	0.02	0.0012	#
1966,A.A.Bergman+	## 40056002	#dY:6.0%		
0.0008	0	0.01	0.0006	#
1966,A.A.Bergman+	## 40056002	#dY:6.0%		
0.0009	0	0.005	0.0003	#
1966,A.A.Bergman+	## 40056002	#dY:6.0%		
0.0011	0	0.01	0.0004	#
1966,A.A.Bergman+	## 40056002	#dY:4.0%		
0.00125	0	0.00195	7.8e-5	#
1966,A.A.Bergman+	## 40056002	#dY:4.0%		
0.0014	0	0.03	0.0012	#
1966,A.A.Bergman+	## 40056002	#dY:4.0%		
0.0018	0	0.048	0.00192	#
1966,A.A.Bergman+	## 40056002	#dY:4.0%		
0.0019	0	0.06	0.0024	#
1966,A.A.Bergman+	## 40056002	#dY:4.0%		
0.002	0	0.1	0.004	#
1966,A.A.Bergman+	## 40056002	#dY:4.0%		
0.0023	0	0.15	0.006	#
1966,A.A.Bergman+	## 40056002	#dY:4.0%		
0.0026	0	0.22	0.0088	#
1966,A.A.Bergman+	## 40056002	#dY:4.0%		
0.0028	0	0.2	0.008	#
1966,A.A.Bergman+	## 40056002	#dY:4.0%		
0.0033	0	0.175	0.007	#
1966,A.A.Bergman+	## 40056002	#dY:4.0%		
0.0038	0	0.12	0.0048	#
1966,A.A.Bergman+	## 40056002	#dY:4.0%		
0.0046	0	0.09	0.0036	#
1966,A.A.Bergman+	## 40056002	#dY:4.0%		
0.0056	0	0.06	0.0024	#
1966,A.A.Bergman+	## 40056002	#dY:4.0%		
0.0066	0	0.05	0.002	#
1966,A.A.Bergman+	## 40056002	#dY:4.0%		
0.008	0	0.052	0.00208	#
1966,A.A.Bergman+	## 40056002	#dY:4.0%		
0.01	0	0.034	0.00136	#
1966,A.A.Bergman+	## 40056002	#dY:4.0%		
0.011	0	0.028	0.021	#
1963,R.L.Macklin+	## 11380006	#dY:75.0%		
0.0115	0	0.032	0.00128	#
1966,A.A.Bergman+	## 40056002	#dY:4.0%		
0.0119	0	0.0227	0.0173	#
1963,R.L.Macklin+	## 11380006	#dY:76.2%		
0.0129	0	0.0387	0.015	#
1963,R.L.Macklin+	## 11380006	#dY:38.8%		
0.013	0	0.034	0.00136	#

1966,A.A.Bergman+	##	40056002	#dY:4.0%		
0.014	0	0.02	0.012	#	
1963,R.L.Macklin+	##	11380006	#dY:60.0%		
0.0146	0.00175	0.052	0.0048	#	
1968,D.C.Stupegia+	##	11624005	#dY:9.2%		
0.0155	0	0.0122	0.0088	#	
1963,R.L.Macklin+	##	11380006	#dY:72.1%		
0.0171	0	0.0055	0.0075	#	
1963,R.L.Macklin+	##	11380006	#dY:136.4%		
0.018	0	0.032	0.00128	#	
1966,A.A.Bergman+	##	40056002	#dY:4.0%		
0.0189	0	0.013	0.0065	#	
1963,R.L.Macklin+	##	11380006	#dY:50.0%		
0.0207	0	0.021	0.006	#	
1963,R.L.Macklin+	##	11380006	#dY:28.6%		
0.0232	0	0.025	0.006	#	
1963,R.L.Macklin+	##	11380006	#dY:24.0%		
0.024	0.0025	0.028	0.007	#	1958,R.Booth+
## 11429013	#dY:25.0%				
0.025	0	0.026	0.00104	#	
1966,A.A.Bergman+	##	40056002	#dY:4.0%		
0.026	0.0025	0.036	0.0033	#	
1968,D.C.Stupegia+	##	11624005	#dY:9.2%		
0.0263	0.01	0.0292	0.0058	#	
1963,R.L.Macklin+	##	11380006	#dY:19.9%		
0.03	0.0035	0.0135	0.003	#	
1961,J.H.Gibbons+	##	11329020	#dY:22.2%		
0.03	0	0.0175	0.0043	#	
1963,R.L.Macklin+	##	11380006	#dY:24.6%		
0.033	0	0.0215	0.00086	#	
1966,A.A.Bergman+	##	40056002	#dY:4.0%		
0.0342	0	0.015	0.0032	#	
1963,R.L.Macklin+	##	11380006	#dY:21.3%		
0.0396	0	0.0112	0.0028	#	
1963,R.L.Macklin+	##	11380006	#dY:25.0%		
0.043	0.0055	0.0193	0.0018	#	
1968,D.C.Stupegia+	##	11624005	#dY:9.3%		
0.0468	0	0.0085	0.0018	#	
1963,R.L.Macklin+	##	11380006	#dY:21.2%		
0.048	0	0.022	0.00088	#	
1966,A.A.Bergman+	##	40056002	#dY:4.0%		
0.0549	0	0.014	0.003	#	
1963,R.L.Macklin+	##	11380006	#dY:21.4%		
0.065	0.01	0.0069	0.002	#	
1961,J.H.Gibbons+	##	11329020	#dY:29.0%		
0.0659	0	0.0112	0.0037	#	
1963,R.L.Macklin+	##	11380006	#dY:33.0%		
0.068	0.00375	0.0155	0.0014	#	
1968,D.C.Stupegia+	##	11624005	#dY:9.0%		
0.07	0.0095	0.0127	0.0023	#	

1967,R.L.Macklin+	##	11679007	#dY:18.1%	
0.085	0.0085	0.0077	0.0024	#
1967,R.L.Macklin+	##	11679007	#dY:31.2%	
0.088	0.0055	0.0152	0.0014	#
1968,D.C.Stupegia+	##	11624005	#dY:9.2%	
0.104	0.0075	0.013	0.0041	#
1967,R.L.Macklin+	##	11679007	#dY:31.5%	
0.125	0.0115	0.0065	0.0024	#
1967,R.L.Macklin+	##	11679007	#dY:36.9%	
0.128	0.006	0.0245	0.005	#
1959,N.A.Bostrom+	##	11130016	#dY:20.4%	
0.15	0.0105	0.0077	0.0036	#
1967,R.L.Macklin+	##	11679007	#dY:46.8%	
0.152	0.006	0.0123	0.001	#
1968,D.C.Stupegia+	##	11624005	#dY:8.1%	
0.166	0.007	0.0095	0.0007	#
1968,D.C.Stupegia+	##	11624005	#dY:7.4%	
0.166	0.5	0.0127	0.0010541	#
1966,V.A.Tolstikov+	##	40003002	#dY:8.3%	
0.181	0.0175	0.0109	0.0006	#
1968,D.C.Stupegia+	##	11624005	#dY:5.5%	
0.182	0.0105	0.0138	0.0041	#
1967,R.L.Macklin+	##	11679007	#dY:29.7%	
0.217	0.012	0.0148	0.0035	#
1959,N.A.Bostrom+	##	11130016	#dY:23.6%	
0.22	0.01	0.0091	0.003	#
1967,R.L.Macklin+	##	11679007	#dY:33.0%	
0.26	0.053	0.0105	0.000861	#
1966,V.A.Tolstikov+	##	40003002	#dY:8.2%	
0.269	0.0125	0.009	0.0005	#
1968,D.C.Stupegia+	##	11624005	#dY:5.6%	
0.28	0.045	0.0105	0.00063	#
1966,V.A.Tolstikov+	##	40003002	#dY:6.0%	
0.324	0.014	0.01	0.003	#
1959,N.A.Bostrom+	##	11130016	#dY:30.0%	
0.389	0.01	0.0076	0.0005	#
1968,D.C.Stupegia+	##	11624005	#dY:6.6%	
0.4	0.045	0.007	0.003	#
1960,B.C.Diven+	##	11616010	#dY:42.9%	
0.424	0.014	0.011	0.003	#
1959,N.A.Bostrom+	##	11130016	#dY:27.3%	
0.441	0.012	0.0082	0.0005	#
1968,D.C.Stupegia+	##	11624005	#dY:6.1%	
0.45	0.055	0.00899	0.00072819	#
1966,V.A.Tolstikov+	##	40003002	#dY:8.1%	
0.5	0.011	0.0065	0.00088	#
1982,W.P.Poenitz	##	12832019	#dY:13.5%	
0.5	0	0.0067	0.0009	#
1992,J.Voignier+	##	22006005	#dY:13.4%	
0.51	0.043	0.00884	0.00054808	#

1966,V.A.Tolstikov+	## 40003002	#dY:6.2%		
0.522	0.025	0.0073	0.0004	#
1968,D.C.Stupegia+	## 11624005	#dY:5.5%		
0.54	0.012	0.0115	0.003	#
1959,N.A.Bostrom+	## 11130016	#dY:26.1%		
0.607	0.043	0.00826	0.0004956	#
1966,V.A.Tolstikov+	## 40003002	#dY:6.0%		
0.626	0.0235	0.0071	0.0004	#
1968,D.C.Stupegia+	## 11624005	#dY:5.6%		
0.68	0.005	0.0102	0.003	#
1959,N.A.Bostrom+	## 11130016	#dY:29.4%		
0.7	0.01	0.0055	0.0008	#
1982,W.P.Poenitz	## 12832019	#dY:14.5%		
0.7	0	0.0064	0.0008	#
1992,J.Voignier+	## 22006005	#dY:12.5%		
0.7	0.07	0.00805	0.0006601	#
1966,V.A.Tolstikov+	## 40003002	#dY:8.2%		
0.83	0.043	0.00812	0.00051968	#
1966,V.A.Tolstikov+	## 40003002	#dY:6.4%		
0.845	0.022	0.007	0.0004	#
1968,D.C.Stupegia+	## 11624005	#dY:5.7%		
0.937	0.047	0.00744	0.00052824	#
1966,V.A.Tolstikov+	## 40003002	#dY:7.1%		
0.96	0.075	0.00611	0.00049491	#
1966,V.A.Tolstikov+	## 40003002	#dY:8.1%		
1	0.0185	0.0042	0.00059	#
1982,W.P.Poenitz	## 12832019	#dY:14.0%		
1	0	0.0053	0.0007	#
1992,J.Voignier+	## 22006005	#dY:13.2%		
1.055	0.022	0.0057	0.0003	#
1968,D.C.Stupegia+	## 11624005	#dY:5.3%		
1.06	0.08	0.00637	0.00042042	#
1966,V.A.Tolstikov+	## 40003002	#dY:6.6%		
1.2	0.018	0.0053	0.00074	#
1982,W.P.Poenitz	## 12832019	#dY:14.0%		
1.24	0.048	0.00574	0.00042476	#
1966,V.A.Tolstikov+	## 40003002	#dY:7.4%		
1.262	0.0215	0.0057	0.0003	#
1968,D.C.Stupegia+	## 11624005	#dY:5.3%		
1.338	0.047	0.00546	0.00030576	#
1966,V.A.Tolstikov+	## 40003002	#dY:5.6%		
1.459	0.024	0.0054	0.0003	#
1968,D.C.Stupegia+	## 11624005	#dY:5.6%		
1.5	0.0165	0.0047	0.00069	#
1982,W.P.Poenitz	## 12832019	#dY:14.7%		
1.52	0.06	0.00552	0.00043056	#
1966,V.A.Tolstikov+	## 40003002	#dY:7.8%		
1.66	0.035	0.0054	0.0003	#
1968,D.C.Stupegia+	## 11624005	#dY:5.6%		
1.68	0.1	0.00532	0.00070756	#

1966,V.A.Tolstikov+	## 40003002	#dY:13.3%	
1.7	0.0155	0.0043	0.00066 #
1982,W.P.Poenitz	## 12832019	#dY:15.3%	
1.953	0.035	0.0039	0.0002 #
1968,D.C.Stupegia+	## 11624005	#dY:5.1%	
2	0.0145	0.0041	0.00066 #
1982,W.P.Poenitz	## 12832019	#dY:16.1%	
2	0	0.0043	0.0006 #
1992,J.Voignier+	## 22006005	#dY:14.0%	
2.06	0.06	0.00428	0.00041944 #
1966,V.A.Tolstikov+	## 40003002	#dY:9.8%	
2.08	0.063	0.00417	0.00032526 #
1966,V.A.Tolstikov+	## 40003002	#dY:7.8%	
2.143	0.035	0.0039	0.0002 #
1968,D.C.Stupegia+	## 11624005	#dY:5.1%	
2.253	0.035	0.0041	0.0002 #
1968,D.C.Stupegia+	## 11624005	#dY:4.9%	
2.45	0.035	0.0042	0.0002 #
1968,D.C.Stupegia+	## 11624005	#dY:4.8%	
2.5	0.0135	0.0043	0.00072 #
1982,W.P.Poenitz	## 12832019	#dY:16.7%	
2.5	0	0.0043	0.0006 #
1992,J.Voignier+	## 22006005	#dY:14.0%	
2.61	0.07	0.0043	0.00043 #
1966,V.A.Tolstikov+	## 40003002	#dY:10.0%	
2.634	0.07	0.00447	0.00034866 #
1966,V.A.Tolstikov+	## 40003002	#dY:7.8%	
3	0	0.0036	0.0008 #
1992,J.Voignier+	## 22006005	#dY:22.2%	
3.12	0.08	0.00403	0.00031434 #
1966,V.A.Tolstikov+	## 40003002	#dY:7.8%	
3.5	0.011	0.0042	0.00054 #
1982,W.P.Poenitz	## 12832019	#dY:12.9%	
3.62	0.085	0.00395	0.00031995 #
1966,V.A.Tolstikov+	## 40003002	#dY:8.1%	
14.06	0.005	0.00102	0.00028 #
1970,F.Rigaud+	## 20530005	#dY:27.5%	
14.1	0.3375	0.00149	0.00021 #
1979,M.Budnar+	## 30532034	#dY:14.1%	
14.5	0	0.0029	0.00029 #
1958,J.L.Perkin+	## 21438014	#dY:10.0%	
14.7	0	0.0014	0.0003 #
1967,J.Csikai+	## 30067011	#dY:21.4%	
//			
#-----			

#			
#name: 39-Y-89(N,A)37-RB-86,,SIG			
#X.axis: Incident Energy			
#Y.axis: Cross Section			

```
#wdata: 4
#ldata: 50
#data...
```

#	X	+dX	Y	+dY	# Comments...
#	MeV	MeV	barns	barns	#
Year, Author(s)		## EXFOR-ID			
	8.54	0.25	0.00012	2e-5	#
1997, R.M. Klopries+		## 31532003	#dY:16.7%		
	9.35	0.1	0.0001	2e-5	#
1960, H.A. Tewes+		## 11504006	#dY:20.0%		
	9.5	0.25	0.00035	6e-5	#
1997, R.M. Klopries+		## 31532003	#dY:17.1%		
	9.55	0.25	0.00034	5e-5	#
1997, R.M. Klopries+		## 31532003	#dY:14.7%		
	10.44	0.3	0.00082	0.00011	#
1997, R.M. Klopries+		## 31532003	#dY:13.4%		
	10.45	0.3	0.00094	0.00014	#
1997, R.M. Klopries+		## 31532003	#dY:14.9%		
	11.38	0.3	0.00241	0.00039	#
1997, R.M. Klopries+		## 31532003	#dY:16.2%		
	11.38	0.3	0.00138	0.00028	#
1997, R.M. Klopries+		## 31532003	#dY:20.3%		
	11.8	0.1	0.0005	0.0001	#
1960, H.A. Tewes+		## 11504006	#dY:20.0%		
	11.86	0.33	0.00341	0.00074	#
1997, R.M. Klopries+		## 31532003	#dY:21.7%		
	12.31	0.35	0.00374	0.00062	#
1997, R.M. Klopries+		## 31532003	#dY:16.6%		
	12.31	0.35	0.00311	0.00062	#
1997, R.M. Klopries+		## 31532003	#dY:19.9%		
	12.8	0.1	0.0013	0.00026	#
1960, H.A. Tewes+		## 11504006	#dY:20.0%		
	13.28	0.35	0.00547	0.00113	#
1997, R.M. Klopries+		## 31532003	#dY:20.7%		
	13.28	0.35	0.00455	0.00114	#
1997, R.M. Klopries+		## 31532003	#dY:25.1%		
	13.4	0.1	0.0039	0.0004	#
1961, B.P. Bayhurst+		## 11462008	#dY:10.3%		
	13.47	0	0.00442	0.00076024	#
2016, A.A. Filatenkov		## 41614054	#dY:17.2%		
	13.5	0.3	0.0059	0.0009	# 2008, Fengqun
Zhou+	## 31649003	#dY:15.3%			
	13.5	0.2	0.0049	0.0006	# 2016, Luo
Junhua+	## 32729003	#dY:12.2%			
	13.65	0	0.00585	0.00096525	#
2016, A.A. Filatenkov		## 41614054	#dY:16.5%		
	13.69	0.05	0.0044	0.0004	#
1961, B.P. Bayhurst+		## 11462008	#dY:9.1%		
	13.8	0.12	0.0072	0.002	#
1997, R.M. Klopries+		## 31532003	#dY:27.8%		

	13.85	0.1	0.0016	0.00032	#
1960,H.A.Tewes+		## 11504006	#dY:20.0%		
	13.88	0	0.00568	0.0010054	#
2016,A.A.Filatenkov		## 41614054	#dY:17.7%		
	14	0.1	0.002	0.0004	#
1960,H.A.Tewes+		## 11504006	#dY:20.0%		
	14.01	0.05	0.005	0.0005	#
1961,B.P.Bayhurst+		## 11462008	#dY:10.0%		
	14.04	0	0.00559	0.0010006	#
2016,A.A.Filatenkov		## 41614054	#dY:17.9%		
	14.1	0.2	0.0081	0.0009	# 2008,Fengqun
Zhou+	## 31649003	#dY:11.1%			
	14.1	0.2	0.0065	0.0007	# 2016,Luo
Junhua+	## 32729003	#dY:10.8%			
	14.15	0.1	0.007	0.0022	#
1997,R.M.Klopries+		## 31532003	#dY:31.4%		
	14.28	0	0.00658	0.0011976	#
2016,A.A.Filatenkov		## 41614054	#dY:18.2%		
	14.31	0.065	0.0055	0.0006	#
1961,B.P.Bayhurst+		## 11462008	#dY:10.9%		
	14.47	0	0.00624	0.0011981	#
2016,A.A.Filatenkov		## 41614054	#dY:19.2%		
	14.5	0	0.0697	0.04182	#
1953,E.B.Paul+		## 11274062	#dY:60.0%		
	14.5	0.1	0.005	0.0005	#
1961,B.P.Bayhurst+		## 11462008	#dY:10.0%		
	14.5	0.2	0.0055	0.000715	#
1987,L.R.Greenwood		## 12977018	#dY:13.0%		
	14.5	0.2	0.00487	0.00023	#
2002,S.V.Begun+		## 32205013	#dY:4.7%		
	14.6	0	0.0048	0.0021	#
1979,K.Kayashima+		## 21300011	#dY:43.7%		
	14.6	0.2	0.096	0.024	#
1962,P.Strohal+		## 30008034	#dY:25.0%		
	14.6	0.12	0.0054	0.0006	#
1993,A.Grallert+		## 31496014	#dY:11.1%		
	14.6	0.3	0.0106	0.0012	# 2008,Fengqun
Zhou+	## 31649003	#dY:11.3%			
	14.6	0	0.0065	0.0003	#
2000,S.V.Begun+		## 32204003	#dY:4.6%		
	14.67	0.17	0.0075	0.0017	#
1997,R.M.Klopries+		## 31532003	#dY:22.7%		
	14.68	0	0.00734	0.001101	#
2016,A.A.Filatenkov		## 41614054	#dY:15.0%		
	14.8	0.2	0.0077	0.0011	# 2016,Luo
Junhua+	## 32729003	#dY:14.3%			
	14.8	0	0.0063	0.0008	#
1969,V.N.Levkovskii+		## 40223019	#dY:12.7%		
	14.81	0.155	0.0054	0.0005	#
1961,B.P.Bayhurst+		## 11462008	#dY:9.3%		

```

14.86      0      0.00743      0.0012111 #
2016,A.A.Filatenkov  ## 41614054 #dY:16.3%
14.9      0.2      0.0058      0.000754 #
1987,L.R.Greenwood  ## 12977018 #dY:13.0%
29.1      0      0.0066      0.0011 # 2020,D.Kral+
## 31834012 #dY:16.7%

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//
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#-----
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```

```
#
```

```
#name: 39-Y-89(N,P)38-SR-89,,SIG
```

```
#X.axis: Incident Energy
```

```
#Y.axis: Cross Section
```

```
#wdata: 4
```

```
#ldata: 42
```

```
#data...
```

#	X	+dX	Y	+dY	# Comments...
#	MeV	MeV	barns	barns	#
Year,Author(s)		##	EXFOR-ID		
7	0.125		0.004	0.0004	#
1961,B.P.Bayhurst+		##	11462009 #dY:10.0%		
7.81	0.2		0.0041	0.0011	#
1997,R.M.Klopries+		##	31532004 #dY:26.8%		
8	0.125		0.0085	0.0007	#
1961,B.P.Bayhurst+		##	11462009 #dY:8.2%		
8.54	0.25		0.0053	0.0008	#
1997,R.M.Klopries+		##	31532004 #dY:15.1%		
9.35	0.1		0.0049	0.00098	#
1960,H.A.Tewes+		##	11504007 #dY:20.0%		
9.55	0.25		0.0082	0.0014	#
1997,R.M.Klopries+		##	31532004 #dY:17.1%		
10.45	0.3		0.0101	0.002	#
1997,R.M.Klopries+		##	31532004 #dY:19.8%		
11.38	0.3		0.0141	0.0028	#
1997,R.M.Klopries+		##	31532004 #dY:19.9%		
11.8	0.1		0.0095	0.0019	#
1960,H.A.Tewes+		##	11504007 #dY:20.0%		
11.86	0.33		0.0145	0.0038	#
1997,R.M.Klopries+		##	31532004 #dY:26.2%		
12.29	0.105		0.0193	0.0017	#
1961,B.P.Bayhurst+		##	11462009 #dY:8.8%		
12.31	0.35		0.0138	0.003	#
1997,R.M.Klopries+		##	31532004 #dY:21.7%		
12.8	0.1		0.0131	0.00262	#
1960,H.A.Tewes+		##	11504007 #dY:20.0%		
13.28	0.35		0.0184	0.0046	#
1997,R.M.Klopries+		##	31532004 #dY:25.0%		
13.33	0.115		0.0209	0.0015	#
1961,B.P.Bayhurst+		##	11462009 #dY:7.2%		
13.4	0.1		0.022	0.0015	#

1961,B.P.Bayhurst+	##	11462009	#dY:6.8%		
13.5	0.2	0.0177	0.0011	#	2016,Luo
Junhua+	##	32729004	#dY:6.2%		
13.52	0.075	0.0217	0.0015	#	
1961,B.P.Bayhurst+	##	11462009	#dY:6.9%		
13.69	0.05	0.0225	0.001	#	
1961,B.P.Bayhurst+	##	11462009	#dY:4.4%		
13.8	0.12	0.0219	0.0042	#	
1997,R.M.Klopries+	##	31532004	#dY:19.2%		
13.85	0.1	0.014	0.0028	#	
1960,H.A.Tewes+	##	11504007	#dY:20.0%		
13.88	0.05	0.0234	0.0016	#	
1961,B.P.Bayhurst+	##	11462009	#dY:6.8%		
14	0.1	0.0145	0.0029	#	
1960,H.A.Tewes+	##	11504007	#dY:20.0%		
14.01	0.05	0.0236	0.0017	#	
1961,B.P.Bayhurst+	##	11462009	#dY:7.2%		
14.09	0.05	0.0227	0.0016	#	
1961,B.P.Bayhurst+	##	11462009	#dY:7.0%		
14.1	0.2	0.0185	0.0007	#	2016,Luo
Junhua+	##	32729004	#dY:3.8%		
14.15	0.1	0.0207	0.0039	#	
1997,R.M.Klopries+	##	31532004	#dY:18.8%		
14.31	0.065	0.0241	0.0017	#	
1961,B.P.Bayhurst+	##	11462009	#dY:7.1%		
14.41	0.18	0.023	0.006	#	
1998,N.I.Molla+	##	31494005	#dY:26.1%		
14.5	0.1	0.024	0.0017	#	
1961,B.P.Bayhurst+	##	11462009	#dY:7.1%		
14.63	0.16	0.02	0.005	#	
1998,N.I.Molla+	##	31494005	#dY:25.0%		
14.67	0.17	0.0222	0.0042	#	
1997,R.M.Klopries+	##	31532004	#dY:18.9%		
14.68	0.13	0.0245	0.0018	#	
1961,B.P.Bayhurst+	##	11462009	#dY:7.3%		
14.7	0	0.053	0.005	#	
1967,J.Csikai+	##	30115008	#dY:9.4%		
14.71	0.12	0.019	0.006	#	
1998,N.I.Molla+	##	31494005	#dY:31.6%		
14.8	0.2	0.0199	0.0006	#	2016,Luo
Junhua+	##	32729004	#dY:3.0%		
14.8	0	0.025	0.005	#	
1969,V.N.Levkovskii+	##	40223020	#dY:20.0%		
14.81	0.155	0.0234	0.0016	#	
1961,B.P.Bayhurst+	##	11462009	#dY:6.8%		
14.93	0.18	0.0232	0.0016	#	
1961,B.P.Bayhurst+	##	11462009	#dY:6.9%		
16.5	0.15	0.0212	0.0018	#	
1961,B.P.Bayhurst+	##	11462009	#dY:8.5%		
17.95	0.16	0.0197	0.0017	#	

```

1961,B.P.Bayhurst+      ## 11462009  #dY:8.6%
      19.76      0.215      0.0199      0.0017  #
1961,B.P.Bayhurst+      ## 11462009  #dY:8.5%
//

```

```

#-----
-----

```

```

#
#name: 39-Y-89(N,G)39-Y-90-G,,SIG
#X.axis: Incident Energy
#Y.axis: Cross Section
#wdata: 4
#ldata: 26
#data...

```

#	X	+dX	Y	+dY	# Comments...
#	MeV	MeV	barns	barns	#
Year,Author(s)		##	EXFOR-ID		
0.024		0	0.025	0.005	#
1968,S.S.Hasan+		##	30077008 #dY:20.0%		
0.142		0.016	0.00961	0.0014415	#
1967,H.A.Grench+		##	11882005 #dY:15.0%		
0.143		0.016	0.01079	0.00058266	#
1967,H.A.Grench+		##	11882003 #dY:5.4%		
0.223		0.0175	0.00796	0.00042984	#
1967,H.A.Grench+		##	11882003 #dY:5.4%		
0.223		0.0175	0.00756	0.001134	#
1967,H.A.Grench+		##	11882005 #dY:15.0%		
0.318		0.0165	0.00811	0.00043794	#
1967,H.A.Grench+		##	11882003 #dY:5.4%		
0.318		0.0165	0.00781	0.0011715	#
1967,H.A.Grench+		##	11882005 #dY:15.0%		
0.426		0.0145	0.00639	0.00034506	#
1967,H.A.Grench+		##	11882003 #dY:5.4%		
0.426		0.0145	0.00652	0.000978	#
1967,H.A.Grench+		##	11882005 #dY:15.0%		
0.525		0.0155	0.00645	0.0003483	#
1967,H.A.Grench+		##	11882003 #dY:5.4%		
0.525		0.0155	0.0066	0.00099	#
1967,H.A.Grench+		##	11882005 #dY:15.0%		
0.609		0.0155	0.00631	0.00034074	#
1967,H.A.Grench+		##	11882003 #dY:5.4%		
0.609		0.0155	0.00691	0.0010365	#
1967,H.A.Grench+		##	11882005 #dY:15.0%		
0.724		0.0155	0.0066	0.0003564	#
1967,H.A.Grench+		##	11882003 #dY:5.4%		
0.724		0.0155	0.00702	0.001053	#
1967,H.A.Grench+		##	11882005 #dY:15.0%		
0.824		0.017	0.00634	0.00034236	#
1967,H.A.Grench+		##	11882003 #dY:5.4%		
0.824		0.017	0.00663	0.0009945	#
1967,H.A.Grench+		##	11882005 #dY:15.0%		

```

0.926      0.017      0.00557      0.00030078      #
1967,H.A.Grench+      ## 11882003      #dY:5.4%
0.926      0.017      0.0058      0.00087      #
1967,H.A.Grench+      ## 11882005      #dY:15.0%
1.027      0.015      0.00474      0.00025596      #
1967,H.A.Grench+      ## 11882003      #dY:5.4%
1.027      0.015      0.00532      0.000798      #
1967,H.A.Grench+      ## 11882005      #dY:15.0%
1.085      0.016      0.00481      0.00025974      #
1967,H.A.Grench+      ## 11882003      #dY:5.4%
1.085      0.016      0.00535      0.0008025      #
1967,H.A.Grench+      ## 11882005      #dY:15.0%
1.223      0.017      0.00473      0.00025542      #
1967,H.A.Grench+      ## 11882003      #dY:5.4%
1.223      0.017      0.00528      0.000792      #
1967,H.A.Grench+      ## 11882005      #dY:15.0%
14.7      0.2      0.0018      0.0006      #
1963,E.T.Bramlitt+      ## 11590036      #dY:33.3%
//
#-----
-----
#
#name: 39-Y-89(N,A)37-RB-86-M,,SIG
#X.axis: Incident Energy
#Y.axis: Cross Section
#wdata: 4
#ldata: 28
#data...
#      X      +-dX      Y      +-dY      # Comments...
#      MeV      MeV      barns      barns      #
Year,Author(s)      ## EXFOR-ID
9.2      0.145      6.9e-5      3e-5      # 1998,R.Doczi+
## 22452003      #dY:43.5%
9.95      0.17      0.000136      2.8e-5      # 1998,R.Doczi+
## 22452003      #dY:20.6%
10.15      0.16      0.000132      4e-5      # 1998,R.Doczi+
## 22452003      #dY:30.3%
10.24      0.115      0.000159      3.3e-5      # 1998,R.Doczi+
## 22452003      #dY:20.8%
11.04      0.175      0.00039      8e-5      # 1998,R.Doczi+
## 22452003      #dY:20.5%
11.21      0.12      0.00035      3e-5      # 1998,R.Doczi+
## 22452003      #dY:8.6%
12.36      0.2      0.00076      0.00014      # 1998,R.Doczi+
## 22452003      #dY:18.4%
13.4      0.09      0.00124      0.0001984      #
1994,K.Yamauchi+      ## 22363005      #dY:16.0%
13.47      0      0.00103      0.00025956      #
2016,A.A.Filatenkov      ## 41614053      #dY:25.2%
13.65      0.09      0.00154      0.0001694      #

```


1994,K.Yamauchi+	## 22363005	#dY:11.0%		
13.65	0	0.00119	0.00017017	#
2016,A.A.Filatenkov	## 41614053	#dY:14.3%		
13.88	0.09	0.00129	0.0002193	#
1994,K.Yamauchi+	## 22363005	#dY:17.0%		
13.88	0	0.00131	0.00019126	#
2016,A.A.Filatenkov	## 41614053	#dY:14.6%		
14.04	0	0.00132	0.00019008	#
2016,A.A.Filatenkov	## 41614053	#dY:14.4%		
14.26	0	0.0016	0.0002992	#
2016,A.A.Filatenkov	## 41614053	#dY:18.7%		
14.28	0.09	0.00188	0.0002068	#
1994,K.Yamauchi+	## 22363005	#dY:11.0%		
14.43	0	0.00182	0.00015998	#
2016,A.A.Filatenkov	## 41614053	#dY:8.8%		
14.5	0.2	0.00176	4e-5	#
2002,S.V.Begun+	## 32205014	#dY:2.3%		
14.55	0.1	0.00202	0.00021	# 1998,R.Doczi+
## 22452003	#dY:10.4%			
14.58	0.09	0.00209	0.00017556	#
1994,K.Yamauchi+	## 22363005	#dY:8.4%		
14.6	0.3	0.00178	6e-5	#
2008,H.M.Agrawal+	## 23031002	#dY:3.4%		
14.6	0	0.00172	3e-5	#
2000,S.V.Begun+	## 32204004	#dY:1.7%		
14.62	0	0.00185	0.00018	#
2016,A.A.Filatenkov	## 41614053	#dY:9.7%		
14.7	0.2	0.00091	0.00045	#
1963,E.T.Bramlitt+	## 11590037	#dY:49.5%		
14.7	0.05	0.00218	0.00027	# 1998,R.Doczi+
## 22452003	#dY:12.4%			
14.78	0	0.002	0.0001898	#
2016,A.A.Filatenkov	## 41614053	#dY:9.5%		
14.8	0.2	0.0018	0.000378	#
1998,Y.Kasugai+	## 22434011	#dY:21.0%		
14.87	0.09	0.00263	0.00022355	#
1994,K.Yamauchi+	## 22363005	#dY:8.5%		

//

#-----

#

#name: 39-Y-89(N,G)39-Y-90-M,,SIG,,AV

#X.axis: Incident Energy

#Y.axis: Cross Section

#wdata: 3

#ldata: 1

#data...

X Y +-dY # Comments...

MeV barns barns # Year,Author(s)

EXFOR-ID

2.53e-8 0 0.00107 1e-5 # 2013,F.Farina
 Arbocco+ ## 23266090 #dY:0.9%

//

#-----

#

#name: 39-Y-89(N,G)39-Y-90,,SIG,,AV

#X.axis: Incident Energy

#Y.axis: Cross Section

#wdata: 4

#ldata: 13

#data...

#	X	+dX	Y	+dY	# Comments...
#	MeV	MeV	barns	barns	#
Year,Author(s)		## EXFOR-ID			
	0.0035	0.0005	0.049	0.005	#
1977,J.W.Boldeman+		## 30391006	#dY:10.2%		
	0.0045	0.0005	0.026	0.003	#
1977,J.W.Boldeman+		## 30391006	#dY:11.5%		
	0.0055	0.0005	0.053	0.006	#
1977,J.W.Boldeman+		## 30391006	#dY:11.3%		
	0.007	0.001	0.0086	0.0008	#
1977,J.W.Boldeman+		## 30391006	#dY:9.3%		
	0.009	0.001	0.051	0.005	#
1977,J.W.Boldeman+		## 30391006	#dY:9.8%		
	0.0125	0.0025	0.048	0.005	#
1977,J.W.Boldeman+		## 30391006	#dY:10.4%		
	0.0175	0.0025	0.007	0.001	#
1977,J.W.Boldeman+		## 30391006	#dY:14.3%		
	0.025	0.005	0.033	0.004	#
1977,J.W.Boldeman+		## 30391006	#dY:12.1%		
	0.035	0.005	0.02	0.004	#
1977,J.W.Boldeman+		## 30391006	#dY:20.0%		
	0.045	0.005	0.006	0.003	#
1977,J.W.Boldeman+		## 30391006	#dY:50.0%		
	0.055	0.005	0.02	0.004	#
1977,J.W.Boldeman+		## 30391006	#dY:20.0%		
	0.07	0.01	0.013	0.004	#
1977,J.W.Boldeman+		## 30391006	#dY:30.8%		
	0.09	0.01	0.009	0.004	#
1977,J.W.Boldeman+		## 30391006	#dY:44.4%		

//

#-----

#

#name: 39-Y-89(N,INL)39-Y-89,,SIG

#X.axis: Incident Energy

#Y.axis: Cross Section

#wdata: 4

#ldata: 5

```

#data...
#           X           +-dX           Y           +-dY # Comments...
#           MeV          MeV          barns        barns #
Year,Author(s)      ## EXFOR-ID
      4.86      0.035      1.73      0.14 #
1992,S.P.Simakov+  ## 41155011 #dY:8.1%
      6.08      0.03      1.89      0.15 #
1992,S.P.Simakov+  ## 41155011 #dY:7.9%
      7.02      0.025     1.97      0.16 #
1992,S.P.Simakov+  ## 41155011 #dY:8.1%
      7.94      0.025     1.87      0.15 #
1992,S.P.Simakov+  ## 41155011 #dY:8.0%
      9.1       0.1       1.88      0.21 #
1975,N.S.Biryukov+  ## 41302006 #dY:11.2%

```

//

#-----

```

#
#name:  ENDF/B-VIII.0: Y-89(N,EL)Y-89-L0
#X.axis: Incident Energy
#Y.axis: Cross Section
#wdata:  2
#ldata:  4489

```

```

#data...
#           X           Y
#           MeV          barns
      1e-11      46.9931
1.10304e-11      44.7971
1.21669e-11      42.7086
1.34206e-11      40.7229
1.48034e-11      38.835
1.63287e-11      37.0405
1.80111e-11      35.335
1.98669e-11      33.7143
2.19139e-11      32.1746
2.43424e-11      30.6102
2.70386e-11      29.1309
3.00351e-11      27.7312
3.33618e-11      26.4085
3.70589e-11      25.1578
4.11636e-11      23.9768
4.57254e-11      22.8612
5.079e-11       21.8088
5.64185e-11      20.8157
6.26675e-11      19.88
6.96123e-11      18.9982
7.73227e-11      18.1685
8.58915e-11      17.3879
9.54051e-11      16.6546
1.05978e-10      15.9659

```

1.18547e-10	15.2787
1.32606e-10	14.6378
1.48333e-10	14.0411
1.65925e-10	13.4862
1.85604e-10	12.9712
2.0907e-10	12.4656
2.35516e-10	12.0001
2.65292e-10	11.573
2.9885e-10	11.1818
3.39009e-10	10.8045
3.84565e-10	10.4628
4.39298e-10	10.1381
5.05362e-10	9.83318
5.8136e-10	9.56296
6.73506e-10	9.31319
7.85722e-10	9.08524
9.29566e-10	8.87144
1.10745e-9	8.68255
1.34742e-9	8.50599
1.66252e-9	8.3512
2.09493e-9	8.21445
2.71467e-9	8.09437
3.66894e-9	7.9888
5.20773e-9	7.90004
7.98378e-9	7.82645
1.36919e-8	7.76884
2.52419e-8	7.73189
2.53e-8	7.73179
7.49314e-8	7.70236
9.72949e-7	7.67836
2.63591e-5	7.41308
5.65634e-5	7.16055
9.17134e-5	6.92718
0.000132947	6.71178
0.000182206	6.51148
0.000241129	6.32734
0.000312454	6.15816
0.000401935	5.99966
0.000514149	5.85421
0.000655567	5.72211
0.000843798	5.59791
0.00109949	5.48072
0.00148302	5.35911
0.00211076	5.19115
0.00228301	5.11614
0.00237707	5.0439
0.00243196	4.97238
0.00246797	4.89795
0.00249563	4.81024
0.00251532	4.71694

0.00253008	4.61634
0.00253943	4.5301
0.00254829	4.42311
0.00255494	4.31861
0.00255937	4.23238
0.00256379	4.1279
0.00256822	3.9985
0.00257148	3.88152
0.00257462	3.74535
0.00257671	3.63798
0.00257881	3.51381
0.00258065	3.38701
0.0025825	3.24078
0.00258431	3.0749
0.00258606	2.89245
0.00258889	2.57449
0.00258963	2.50526
0.00259013	2.47207
0.00259049	2.45886
0.00259061	2.4574
0.00259096	2.46384
0.00259119	2.47962
0.00259142	2.5067
0.00259164	2.54728
0.00259186	2.60596
0.00259203	2.66506
0.00259219	2.74038
0.00259236	2.83582
0.00259247	2.91303
0.00259258	3.00322
0.00259269	3.10858
0.0025928	3.23175
0.00259291	3.37586
0.00259302	3.54469
0.00259311	3.69596
0.0025932	3.88048
0.00259329	4.09168
0.00259339	4.33361
0.00259348	4.611
0.00259354	4.81824
0.0025936	5.04543
0.00259366	5.29453
0.00259372	5.56766
0.00259379	5.86715
0.00259385	6.19555
0.00259391	6.55562
0.00259397	6.95031
0.00259403	7.38283
0.00259409	7.79508
0.00259416	8.37558

0.00259422	9.01819
0.00259429	9.72883
0.00259436	10.5141
0.00259443	11.3808
0.0025945	12.3367
0.00259457	13.3891
0.00259464	14.5465
0.00259471	15.8171
0.00259478	17.2103
0.00259483	18.3842
0.00259489	19.829
0.00259495	21.3901
0.00259502	23.0742
0.00259508	24.8882
0.00259514	26.8387
0.0025952	28.9322
0.00259526	31.1752
0.00259532	33.4502
0.0025954	36.9345
0.00259549	40.7261
0.00259557	44.8357
0.00259565	49.2729
0.00259574	54.0434
0.00259581	58.8796
0.00259589	64.0188
0.00259597	69.459
0.00259608	77.0443
0.0025962	86.7002
0.0025963	94.8756
0.00259644	107.786
0.00259664	125.902
0.00259704	162.872
0.00259718	176.016
0.00259733	188.224
0.00259747	198.812
0.00259761	207.341
0.00259773	214.031
0.00259782	217.968
0.00259792	221.303
0.00259804	223.986
0.00259816	225.189
0.00259819	225.267
0.0025983	224.707
0.0025984	222.96
0.00259851	220.074
0.00259865	214.79
0.00259879	207.915
0.00259895	198.397
0.0025991	187.468
0.0025993	172.426

0.0025998	132.291
0.00259998	118.469
0.00260011	109.295
0.00260023	100.675
0.00260036	92.6624
0.00260049	85.288
0.00260062	78.5627
0.00260072	73.37
0.00260082	69.0384
0.00260092	65.0692
0.00260102	61.446
0.00260112	58.1523
0.00260121	55.1683
0.00260131	52.4744
0.00260141	50.0498
0.00260151	47.8745
0.00260157	46.553
0.0026017	44.1927
0.00260184	42.0617
0.00260198	40.2676
0.00260212	38.768
0.00260226	37.5262
0.0026024	36.5105
0.00260254	35.6946
0.00260263	35.2508
0.00260281	34.5799
0.002603	34.1712
0.00260319	34.0027
0.00260337	34.0657
0.00260356	34.363
0.00260375	34.9003
0.00260394	35.692
0.00260408	36.4668
0.00260422	37.4112
0.00260437	38.5421
0.00260451	39.8792
0.00260465	41.4465
0.00260476	42.8094
0.00260488	44.5353
0.002605	46.4871
0.00260512	48.6879
0.00260524	51.1625
0.00260536	53.9373
0.00260548	57.0396
0.00260561	60.4976
0.00260571	63.9375
0.00260581	67.2728
0.00260591	70.8831
0.00260601	74.781
0.00260615	81.1906

0.0026063	88.3007
0.00260644	96.1263
0.00260657	103.783
0.0026067	112.005
0.00260688	123.793
0.00260705	136.411
0.00260727	153.455
0.00260768	185.518
0.00260791	203.005
0.00260809	215.008
0.00260827	225.879
0.00260839	232.176
0.00260851	237.492
0.00260863	241.728
0.00260877	245.139
0.00260891	246.953
0.002609	247.251
0.00260914	246.32
0.00260928	243.759
0.00260943	239.106
0.00260955	234.138
0.00260967	228.141
0.00260985	217.453
0.00261003	205.625
0.0026102	192.668
0.00261052	167.314
0.00261086	140.32
0.00261102	128.54
0.00261117	117.335
0.00261133	106.812
0.00261148	97.0463
0.00261163	88.6132
0.00261177	80.8917
0.00261187	76.1356
0.00261197	71.685
0.00261206	67.5322
0.00261216	63.6657
0.00261226	60.0738
0.00261237	56.264
0.00261248	52.7777
0.00261259	49.5922
0.0026127	46.6853
0.00261281	44.0343
0.00261293	41.618
0.00261304	39.4156
0.00261315	37.4079
0.00261329	35.1622
0.00261342	33.1554
0.00261356	31.3587
0.0026137	29.7465

0.00261384	28.296
0.00261398	26.9874
0.00261416	25.4338
0.00261434	24.0668
0.00261453	22.8574
0.00261474	21.6228
0.00261486	20.9896
0.00261511	19.8492
0.00261535	18.8521
0.00261559	17.974
0.00261583	17.1954
0.00261607	16.5011
0.00261644	15.5909
0.0026168	14.8098
0.00261717	14.1329
0.00261753	13.5415
0.00261789	13.0209
0.00261826	12.5595
0.00261867	12.0934
0.00261919	11.5868
0.00261971	11.1483
0.00262022	10.7654
0.00262091	10.3249
0.00262173	9.88845
0.00262219	9.66976
0.00262313	9.28875
0.00262406	8.96826
0.00262499	8.69509
0.0026262	8.39529
0.00262741	8.14382
0.00262923	7.83451
0.00263105	7.58549
0.00263226	7.44478
0.00263468	7.20926
0.00263698	7.02839
0.00264044	6.81204
0.00264389	6.64261
0.00264825	6.47459
0.00265261	6.34238
0.00265794	6.2145
0.00266327	6.11295
0.00267297	5.97273
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0.00271755	5.65342
0.00274468	5.56125
0.00278224	5.48002
0.00283578	5.40853
0.00292882	5.33677
0.00309276	5.26839

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0.00332921	5.21497
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0.00336121	5.24678
0.00336581	5.28028
0.00336857	5.32306
0.00337064	5.38316
0.00337179	5.43811
0.00337294	5.52283
0.00337381	5.62175
0.00337447	5.73582
0.00337484	5.82614
0.00337522	5.94825
0.0033755	6.07285
0.00337573	6.21219
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0.00337687	7.96312
0.00337696	8.26966
0.00337706	8.61802
0.00337715	9.01328
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0.00337734	9.96644
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0.00337772	12.6934
0.0033778	13.4631
0.00337788	14.2399
0.00337795	15.0818
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0.00337836	20.79
0.00337846	22.5614
0.00337856	24.4754
0.00337868	26.8197
0.00337879	29.3423
0.00337891	32.0349
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0.00338146	72.8005
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0.00338171	68.5311
0.00338185	65.4487
0.00338203	61.0065
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0.00570977	4.90405
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0.0117781	9.4657
0.0117921	9.0767
0.0118062	8.74796
0.0118203	8.46691
0.011839	8.15051
0.0118578	7.88622
0.0118766	7.66245
0.0119047	7.38484
0.0119329	7.16018
0.0119657	6.94595
0.0119989	6.76902
0.0120454	6.56981
0.0120943	6.40434
0.0121549	6.24231
0.0122331	6.08149
0.0123269	5.93574
0.012452	5.79239
0.0125911	5.67798
0.0127221	5.60853
0.012777	5.59747
0.0128342	5.61445
0.0128686	5.65829
0.0128892	5.71228
0.0129039	5.77521
0.0129189	5.87518
0.012929	5.97618
0.0129381	6.10633
0.012945	6.24026
0.0129496	6.35427
0.0129541	6.49512
0.0129587	6.67165
0.0129621	6.83491
0.0129656	7.03261
0.0129687	7.2536
0.0129719	7.52356
0.0129743	7.76703

0.0129766	8.05464
0.0129782	8.27621
0.0129801	8.57727
0.012982	8.92759
0.0129838	9.33817
0.0129852	9.69391
0.0129866	10.0917
0.012988	10.5414
0.0129894	11.0564
0.0129907	11.6493
0.0129921	12.3351
0.012993	12.8531
0.012994	13.4275
0.0129949	14.0658
0.0129958	14.7768
0.0129967	15.5702
0.0129976	16.4575
0.0129985	17.4511
0.0129994	18.565
0.0130004	19.8141
0.0130013	21.2886
0.0130023	22.9471
0.0130032	24.8057
0.0130042	26.8757
0.0130052	29.1605
0.0130061	31.7123
0.0130071	34.4827
0.0130101	43.2099
0.013011	45.682
0.0130118	47.5227
0.0130126	49.0649
0.0130134	50.2393
0.0130142	50.9903
0.0130147	51.2364
0.013015	51.2835
0.0130157	51.1221
0.0130163	50.6305
0.013017	49.8264
0.0130176	48.7379
0.0130183	47.4011
0.0130191	45.2766
0.0130198	43.4956
0.0130215	38.6907
0.0130231	33.8706
0.0130241	31.184
0.0130251	28.7461
0.013026	26.5152
0.013027	24.4975
0.013028	22.6877
0.0130289	21.0736

0.0130298	19.7027
0.0130307	18.479
0.0130317	17.387
0.0130326	16.4121
0.0130335	15.5406
0.0130344	14.7605
0.0130353	14.0607
0.0130362	13.4316
0.0130371	12.8648
0.0130381	12.3529
0.0130394	11.6742
0.0130408	11.0866
0.0130422	10.575
0.0130436	10.1275
0.0130449	9.73392
0.0130463	9.38637
0.0130481	8.98303
0.01305	8.6368
0.0130523	8.25569
0.0130545	7.95951
0.0130567	7.70613
0.0130597	7.42177
0.0130626	7.18612
0.013066	6.95783
0.0130695	6.76948
0.013074	6.56572
0.0130786	6.4028
0.0130832	6.27043
0.01309	6.11382
0.0130969	5.99343
0.0131047	5.88758
0.0131157	5.77598
0.013131	5.66675
0.0131511	5.57124
0.0131729	5.5019
0.0132072	5.42896
0.0132667	5.34958
0.0135184	5.12948
0.013587	5.04575
0.0136282	4.97291
0.0136625	4.88371
0.0136849	4.79782
0.0137011	4.7106
0.0137116	4.63573
0.0137215	4.54369
0.0137309	4.42783
0.0137381	4.31047
0.013743	4.20767
0.0137479	4.0793
0.0137516	3.95985

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0.0137583	3.66867
0.0137605	3.53978
0.0137625	3.40624
0.0137644	3.26089
0.0137662	3.09153
0.0137678	2.92477
0.0137688	2.80029
0.0137704	2.59284
0.0137725	2.30141
0.0137731	2.22615
0.0137735	2.18742
0.0137739	2.16718
0.0137742	2.16036
0.0137743	2.16352
0.0137746	2.17822
0.0137748	2.20747
0.013775	2.2409
0.0137752	2.28584
0.0137754	2.34413
0.0137756	2.41758
0.0137758	2.50838
0.0137759	2.61884
0.0137761	2.75153
0.0137763	2.85363
0.0137764	2.96766
0.0137765	3.09449
0.0137766	3.23503
0.0137768	3.39031
0.0137769	3.56134
0.013777	3.74908
0.0137771	3.95454
0.0137772	4.17887
0.0137774	4.42315
0.0137775	4.68839
0.0137776	4.97567
0.0137778	5.35124
0.0137779	5.70891
0.013778	6.09436
0.0137782	6.50978
0.0137783	6.95524
0.0137784	7.53416
0.0137786	8.09154
0.0137787	8.68784
0.0137789	9.32397
0.013779	10.0009
0.0137791	10.7192
0.0137793	11.8743
0.0137795	12.6963
0.0137797	13.9482

0.0137799	15.2831
0.0137801	16.6989
0.0137804	18.7234
0.0137806	20.9321
0.0137809	23.5882
0.0137815	28.1923
0.0137822	34.6567
0.0137825	37.4645
0.0137829	39.9203
0.0137832	42.2637
0.0137835	43.9153
0.0137837	45.3621
0.013784	46.482
0.0137843	47.3738
0.0137846	47.8943
0.0137849	48.0384
0.0137851	47.9366
0.0137853	47.6099
0.0137856	47.0702
0.0137858	46.2612
0.0137861	45.066
0.0137864	43.6267
0.0137867	41.9862
0.0137871	39.5615
0.0137878	35.2254
0.0137884	30.901
0.0137888	28.4797
0.0137892	26.1963
0.0137895	24.0823
0.0137899	22.4718
0.0137902	20.7298
0.0137905	19.6742
0.0137907	18.7019
0.013791	17.8091
0.0137912	16.9929
0.0137915	16.2485
0.0137917	15.5715
0.0137921	14.6703
0.0137924	13.8923
0.0137928	13.2205
0.0137932	12.6399
0.0137936	12.1364
0.013794	11.5841
0.0137946	11.0703
0.0137951	10.6389
0.0137956	10.2716
0.0137961	9.95492
0.0137967	9.64842
0.0137974	9.33009
0.0137984	8.97374

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0.0138003	8.42323
0.0138015	8.1458
0.0138028	7.91282
0.0138046	7.62536
0.0138065	7.39296
0.0138077	7.26118
0.0138102	7.03971
0.0138125	6.86883
0.013816	6.66384
0.0138196	6.50268
0.0138245	6.32688
0.0138294	6.19143
0.0138354	6.06485
0.0138413	5.96522
0.01385	5.8517
0.0138596	5.75773
0.0138759	5.64223
0.0138985	5.53441
0.0139213	5.45972
0.0139607	5.37135
0.0140118	5.29603
0.0140814	5.23269
0.0141163	5.22113
0.0141453	5.23967
0.01416	5.27552
0.0141686	5.31524
0.014176	5.37025
0.0141823	5.44171
0.0141878	5.53513
0.0141924	5.65206
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0.0141982	5.8824
0.0142005	6.01714
0.0142028	6.18957
0.0142049	6.3817
0.0142066	6.58723
0.0142079	6.77485
0.0142092	6.99937
0.0142104	7.27092
0.0142114	7.5002
0.0142123	7.78496
0.0142133	8.12172
0.014214	8.41609
0.0142148	8.75372
0.0142155	9.12336
0.0142162	9.5487
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0.014219	12.0557
0.0142194	12.6468
0.0142199	13.3033
0.0142203	14.0316
0.0142208	14.8387
0.0142213	15.7305
0.0142217	16.7127
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0.0142228	19.2097
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0.0142272	33.5996
0.0142277	35.0428
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0.0142287	37.186
0.014229	37.792
0.0142294	38.2134
0.0142298	38.4407
0.01423	38.4803
0.0142304	38.4035
0.0142308	38.1288
0.0142312	37.6635
0.0142316	37.0195
0.0142321	35.9102
0.0142326	34.6112
0.0142331	33.1335
0.0142338	30.9696
0.0142356	25.0406
0.0142363	22.6771
0.0142369	21.0314
0.0142374	19.5132
0.0142378	18.5755
0.0142383	17.4872
0.0142387	16.4912
0.0142392	15.5837
0.0142397	14.7599
0.0142401	14.0135
0.0142406	13.3388
0.014241	12.7292
0.0142415	12.1786
0.014242	11.6808
0.0142427	11.0216
0.0142434	10.4528
0.0142441	9.95985
0.0142448	9.53097
0.0142455	9.15011
0.0142462	8.80599

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0.0142482	8.07742
0.0142491	7.79188
0.0142504	7.47413
0.0142517	7.21018
0.014253	6.98847
0.0142543	6.8004
0.014256	6.59087
0.0142577	6.41603
0.0142595	6.27046
0.0142618	6.11128
0.0142641	5.98249
0.0142676	5.8307
0.0142699	5.74995
0.0142746	5.623
0.0142793	5.52746
0.0142871	5.41429
0.0142957	5.33013
0.0143095	5.24189
0.0143252	5.17798
0.0143563	5.10023
0.0144085	5.02179
0.0146588	4.7475
0.01476	4.60739
0.0148392	4.46895
0.0149032	4.33041
0.0149739	4.14489
0.0150328	3.97863
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0.0150769	3.90737
0.0150877	3.91608
0.0150984	3.94607
0.0151065	3.98883
0.0151146	4.05517
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0.0151252	4.19619
0.0151305	4.2972
0.0151358	4.42563
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0.0151438	4.68564
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0.0151517	5.05695
0.0151557	5.29909
0.0151584	5.48678
0.015161	5.69889
0.0151637	5.93889
0.0151663	6.21077
0.015169	6.51915
0.0151716	6.86943
0.0151743	7.26785

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0.0151789	8.10322
0.0151809	8.5243
0.0151829	8.98928
0.015185	9.54362
0.0151872	10.1847
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0.0151916	11.7082
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0.0152236	37.7194
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0.0152286	42.6673
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0.0152319	45.1367
0.0152335	45.9674
0.0152355	46.7614
0.0152376	47.1544
0.0152386	47.202
0.0152402	47.0903
0.0152422	46.6727
0.0152441	45.9802
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0.0152525	40.9141
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0.0152655	31.6464
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0.0152722	27.7465
0.0152748	26.3844
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0.0152814	23.4341
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0.0152934	19.4633
0.0152973	18.4352
0.0153013	17.5223
0.0153053	16.7091
0.0153093	15.982
0.0153146	15.127
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0.0153305	13.1557
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0.0153467	11.7637
0.0153527	11.3592
0.0153616	10.8322
0.0153706	10.3788
0.0153798	9.98384
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0.0154215	8.73586
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0.0154745	7.84414
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0.0155849	6.93399
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0.0160133	5.95622
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0.0165278	5.65551
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0.0165643	5.66668
0.0165704	5.68466
0.0165755	5.7253
0.0165776	5.76756
0.0165787	5.80978
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0.0165832	7.13659
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0.0165953	8.66501
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0.016598	6.33004
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0.0166056	5.65582
0.0166126	5.62765
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0.0170065	5.51239
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0.0171386	5.9874
0.017139	5.8877
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0.0202254	5.56836
0.0202366	5.68636
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0.0202784	7.25789
0.0202806	7.49173
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0.0202962	11.008
0.0202973	11.5009
0.0202984	12.0516
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0.0203006	13.359
0.0203018	14.1335
0.0203029	15.0018

0.020304	15.9736
0.0203049	16.8321
0.0203058	17.7668
0.0203067	18.7805
0.0203075	19.8742
0.0203089	21.6604
0.0203102	23.6012
0.020314	29.4836
0.020315	30.8758
0.020316	32.1268
0.0203169	33.1834
0.0203179	33.9973
0.0203186	34.4239
0.0203194	34.6939
0.02032	34.7552
0.0203207	34.6776
0.0203214	34.4248
0.0203222	34.0043
0.0203229	33.4284
0.0203238	32.5609
0.0203246	31.5279
0.0203259	29.7464
0.0203281	26.4578
0.0203298	23.8148
0.0203311	21.8822
0.0203325	20.1006
0.0203334	19.0081
0.0203342	17.9943
0.0203351	17.0585
0.020336	16.1982
0.0203369	15.4096
0.020338	14.5174
0.0203391	13.7204
0.0203402	13.0086
0.0203414	12.3729
0.0203425	11.8044
0.0203436	11.2953
0.0203447	10.8385
0.0203464	10.2381
0.020348	9.72352
0.0203497	9.28025
0.0203514	8.89639
0.020353	8.5622
0.0203547	8.26981
0.0203569	7.93391
0.0203592	7.64872
0.0203614	7.40475
0.0203645	7.11865
0.0203672	6.91442
0.0203707	6.68778

0.0203743	6.50204
0.0203792	6.29513
0.0203834	6.15558
0.020389	6.00596
0.0203945	5.88751
0.0204029	5.75128
0.0204112	5.64972
0.0204224	5.55
0.0204357	5.46524
0.0204561	5.37949
0.0204771	5.32236
0.0205175	5.25762
0.0205731	5.21117
0.0206871	5.1677
0.0209875	5.12408
0.0218349	5.06816
0.0221249	5.06144
0.0224256	5.07769
0.022576	5.11275
0.0226726	5.16244
0.0227371	5.22218
0.0227827	5.28965
0.022823	5.38075
0.0228498	5.46917
0.02287	5.55845
0.0228914	5.6865
0.0229062	5.80305
0.0229202	5.94443
0.0229306	6.07766
0.0229407	6.2356
0.0229506	6.42842
0.0229572	6.58387
0.0229658	6.83293
0.0229712	7.01957
0.0229766	7.23754
0.0229819	7.49438
0.0229873	7.80012
0.0229913	8.06944
0.0229954	8.38113
0.0229994	8.74472
0.0230034	9.17251
0.0230067	9.57975
0.02301	10.0515
0.0230133	10.6019
0.0230154	11.0219
0.0230176	11.4923
0.0230198	12.0217
0.0230223	12.7127
0.0230244	13.3802
0.0230266	14.1395

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0.0230301	15.6592
0.0230315	16.3762
0.0230333	17.3899
0.0230349	18.4299
0.0230365	19.6059
0.0230381	20.9422
0.0230392	21.9362
0.0230402	23.0243
0.0230413	24.1558
0.0230422	25.3263
0.0230432	26.6036
0.0230442	28.0001
0.0230451	29.5299
0.0230461	31.2088
0.0230471	33.0543
0.023048	35.0863
0.0230489	37.0668
0.02305	39.9444
0.0230508	42.0569
0.0230515	44.3396
0.0230523	46.8064
0.023053	49.4702
0.0230538	52.3448
0.0230549	56.8409
0.0230558	61.301
0.0230568	66.1676
0.0230578	71.4411
0.0230587	77.1055
0.02306	85.2804
0.0230637	109.88
0.0230647	116.128
0.0230657	121.344
0.0230666	125.646
0.0230674	129.086
0.0230683	131.522
0.0230692	132.842
0.0230698	133.07
0.0230706	132.614
0.0230713	131.348
0.0230721	129.31
0.0230728	126.556
0.0230735	123.242
0.0230746	117.314
0.0230757	110.521
0.0230775	98.153
0.0230796	83.9905
0.0230808	75.6227
0.0230818	69.765
0.0230828	64.317

0.0230837	59.2988
0.0230847	54.7084
0.0230857	50.5341
0.0230866	46.7522
0.0230876	43.3352
0.0230886	40.2521
0.0230893	38.0654
0.0230902	35.7727
0.023091	33.6809
0.0230919	31.7711
0.0230928	30.0258
0.0230936	28.429
0.0230945	26.9662
0.0230953	25.6244
0.0230963	24.2447
0.0230974	22.8557
0.0230985	21.6008
0.0230995	20.4644
0.0231006	19.4329
0.0231017	18.4945
0.0231028	17.6387
0.0231044	16.4908
0.023106	15.4594
0.0231077	14.5528
0.0231093	13.7521
0.023111	13.0422
0.0231126	12.41
0.0231141	11.9017
0.023116	11.33
0.0231178	10.8217
0.0231197	10.3679
0.0231215	9.96143
0.0231243	9.42737
0.0231271	8.96914
0.0231293	8.64163
0.023132	8.29941
0.0231347	7.99899
0.0231374	7.73402
0.0231414	7.39187
0.0231454	7.1039
0.0231495	6.85946
0.0231535	6.65035
0.0231575	6.47021
0.0231629	6.2666
0.0231683	6.09655
0.0231744	5.9353
0.0231812	5.78651
0.0231915	5.61107
0.0232018	5.47658
0.023212	5.37188

0.0232257	5.26509
0.0232459	5.15394
0.023266	5.07763
0.0232929	5.00881
0.0233331	4.94576
0.0233922	4.89673
0.0234889	4.86301
0.0235646	4.85616
0.0236338	4.86944
0.0236581	4.89009
0.0236764	4.92848
0.0236868	4.97628
0.023693	5.02661
0.0236978	5.08733
0.0237012	5.14953
0.0237045	5.2389
0.023707	5.33445
0.0237087	5.41893
0.0237103	5.51835
0.0237117	5.63476
0.0237131	5.78486
0.0237142	5.9281
0.0237153	6.10742
0.0237162	6.30087
0.0237169	6.47641
0.0237176	6.68458
0.0237183	6.93265
0.0237189	7.22915
0.0237194	7.48092
0.0237199	7.76762
0.0237204	8.09371
0.0237209	8.4635
0.0237215	8.88137
0.023722	9.35109
0.0237225	9.87586
0.023723	10.4574
0.0237235	11.0967
0.023724	11.7918
0.0237246	12.7989
0.0237253	13.8823
0.0237272	17.1793
0.0237281	18.4356
0.0237286	19.174
0.0237291	19.8036
0.0237296	20.2368
0.02373	20.5638
0.0237305	20.7757
0.023731	20.87
0.0237315	20.8131
0.023732	20.6283

0.0237323	20.4367
0.0237328	19.9712
0.0237334	19.3619
0.0237339	18.6321
0.0237345	17.809
0.0237354	16.3335
0.0237369	13.8019
0.0237376	12.7428
0.0237382	11.7621
0.0237387	11.0867
0.0237392	10.467
0.0237397	9.90353
0.0237402	9.3956
0.0237407	8.94085
0.0237413	8.53621
0.0237418	8.1777
0.0237423	7.86123
0.0237428	7.54342
0.0237434	7.26912
0.0237438	7.10743
0.0237446	6.82748
0.0237453	6.59609
0.0237463	6.36242
0.0237472	6.17426
0.0237479	6.06864
0.0237492	5.894
0.0237504	5.75647
0.0237521	5.61567
0.0237538	5.50725
0.0237563	5.38568
0.0237588	5.29716
0.0237622	5.21201
0.0237665	5.1363
0.0237719	5.075
0.0237812	5.01216
0.0237879	4.98568
0.0238047	4.9505
0.0238365	4.93233
0.0238416	4.93215
0.0238853	4.94709
0.0239317	4.99002
0.023964	5.04116
0.0239963	5.12113
0.0240205	5.21314
0.0240358	5.29453
0.0240503	5.39735
0.0240611	5.49735
0.0240717	5.62354
0.0240823	5.78972
0.0240888	5.92053

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0.0241009	6.24605
0.0241069	6.46927
0.0241116	6.68851
0.0241152	6.88262
0.0241187	7.11084
0.0241223	7.3819
0.0241257	7.69131
0.0241281	7.95028
0.0241305	8.24823
0.0241329	8.59373
0.0241354	8.99766
0.0241376	9.44255
0.0241396	9.89285
0.0241416	10.4164
0.0241429	10.8143
0.0241442	11.2587
0.0241455	11.7571
0.0241468	12.3189
0.0241479	12.8361
0.0241492	13.5189
0.0241505	14.297
0.0241517	15.1891
0.0241526	15.8586
0.0241534	16.5975
0.0241543	17.4155
0.0241552	18.4626
0.0241562	19.6488
0.0241572	20.9991
0.0241578	22.005
0.0241585	23.1075
0.0241591	24.3182
0.0241598	25.6504
0.0241604	27.119
0.0241611	28.7403
0.0241617	30.5323
0.0241623	32.5147
0.024163	34.7085
0.0241636	37.1352
0.0241643	39.8165
0.0241648	42.3117
0.0241655	45.686
0.0241662	49.3995
0.0241669	53.4617
0.0241675	57.8728
0.0241682	62.6176
0.024169	68.4108
0.0241702	77.6586
0.0241718	90.9554
0.0241727	98.1487

0.0241734	103.023
0.0241741	107.253
0.0241748	110.672
0.0241755	113.106
0.024176	114.151
0.0241766	114.785
0.0241767	114.825
0.0241773	114.398
0.024178	112.939
0.0241787	110.496
0.0241793	107.236
0.02418	103.232
0.0241804	100.214
0.0241813	93.5292
0.0241826	82.9561
0.0241841	69.7339
0.0241849	63.4473
0.0241857	57.5386
0.0241862	53.3993
0.0241868	49.5317
0.0241874	45.9413
0.024188	42.6296
0.0241886	39.2673
0.0241891	36.808
0.0241897	34.5429
0.0241902	32.4605
0.0241907	30.5483
0.0241912	28.7939
0.0241917	27.1851
0.0241922	25.7099
0.0241928	24.1955
0.0241935	22.6754
0.0241941	21.3081
0.0241948	20.0764
0.0241954	18.9647
0.024196	17.9593
0.0241967	17.0482
0.0241973	16.2207
0.024198	15.4585
0.0241986	14.7558
0.0241996	13.8153
0.0242006	12.9919
0.0242016	12.2677
0.0242026	11.6277
0.0242035	11.1167
0.0242046	10.5459
0.0242057	10.0423
0.0242068	9.59592
0.024208	9.19868
0.0242091	8.84377

0.0242107	8.37869
0.0242119	8.10681
0.0242135	7.75822
0.0242151	7.45527
0.0242167	7.1905
0.0242183	6.95795
0.0242207	6.65912
0.0242232	6.40915
0.0242256	6.19826
0.024228	6.01899
0.0242312	5.81934
0.0242344	5.65535
0.024239	5.47087
0.0242429	5.34422
0.0242482	5.21067
0.0242534	5.1072
0.0242587	5.0262
0.0242679	4.92215
0.0242772	4.85216
0.0242907	4.78872
0.0243053	4.75224
0.0243281	4.73545
0.0243512	4.75087
0.0243749	4.79345
0.0243983	4.86457
0.0244207	4.96779
0.0244356	5.06344
0.0244506	5.1894
0.0244615	5.30647
0.0244724	5.45299
0.0244833	5.63813
0.0244906	5.7895
0.0244978	5.96947
0.0245051	6.18529
0.0245105	6.37635
0.024516	6.59817
0.0245214	6.8574
0.0245269	7.16254
0.0245323	7.52458
0.024536	7.80436
0.0245406	8.21207
0.0245448	8.64489
0.0245475	8.97349
0.0245503	9.33958
0.0245531	9.74859
0.0245559	10.2068
0.0245587	10.722
0.0245617	11.3627
0.0245642	11.9548
0.0245667	12.6207

0.0245692	13.3726
0.0245717	14.2249
0.0245741	15.187
0.0245757	15.891
0.0245774	16.6609
0.024579	17.5047
0.0245806	18.4316
0.0245822	19.4522
0.0245838	20.5786
0.0245854	21.8246
0.0245869	23.0616
0.0245882	24.2644
0.0245895	25.5751
0.0245908	27.0059
0.0245921	28.57
0.0245933	30.2822
0.0245946	32.159
0.0245959	34.2187
0.0245971	36.1868
0.0245985	38.9689
0.0246	42.0652
0.0246014	45.5107
0.0246029	49.3414
0.0246043	53.5918
0.0246058	58.2937
0.0246072	63.4682
0.0246087	69.1239
0.0246101	75.2461
0.0246116	81.7904
0.0246141	93.7774
0.0246171	108.44
0.0246186	115.212
0.0246202	121.173
0.0246214	125.223
0.0246223	127.647
0.0246233	129.478
0.0246242	130.67
0.0246253	131.212
0.0246264	130.846
0.0246275	129.56
0.0246286	127.407
0.0246297	124.472
0.0246307	120.863
0.0246324	114.454
0.024634	107.233
0.0246384	87.048
0.0246403	78.5788
0.0246418	72.6638
0.0246432	67.1749
0.0246447	62.1295

0.0246462	57.5221
0.0246476	53.3347
0.0246491	49.5403
0.0246502	46.8414
0.0246515	44.006
0.0246528	41.415
0.0246541	39.0465
0.0246554	36.8802
0.0246567	34.8969
0.0246579	33.0794
0.0246592	31.4116
0.0246607	29.6964
0.0246623	27.9692
0.0246639	26.4087
0.0246655	24.9955
0.0246672	23.7125
0.0246688	22.545
0.0246704	21.4802
0.024672	20.5068
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0.0246768	18.0427
0.0246793	17.0211
0.0246817	16.1128
0.0246841	15.302
0.0246869	14.4648
0.0246893	13.8277
0.0246917	13.252
0.0246953	12.4865
0.0246989	11.8202
0.0247025	11.2373
0.0247066	10.6635
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0.0247149	9.70647
0.0247199	9.2405
0.0247249	8.83796
0.0247299	8.48778
0.0247352	8.16381
0.0247389	7.96559
0.0247461	7.61788
0.0247534	7.32376
0.0247607	7.07254
0.0247679	6.85608
0.0247788	6.58324
0.0247897	6.35899
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0.0248109	6.02306
0.0248253	5.84872
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0.0249722	5.04866
0.0250219	4.9342
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0.0251869	4.69989
0.0253494	4.5486
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0.0261815	3.44494
0.0261987	3.43547
0.0262133	3.44308
0.026228	3.47228
0.0262397	3.51907
0.0262475	3.56606
0.0262554	3.6295
0.0262632	3.7137
0.026271	3.82421
0.0262769	3.92862
0.0262827	4.05566
0.0262886	4.21001
0.0262945	4.39743
0.0262984	4.54418
0.0263023	4.71124
0.0263062	4.90147
0.0263101	5.11817
0.026314	5.36511
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0.0263218	5.96719
0.0263258	6.34441
0.0263285	6.62586
0.0263312	6.9343
0.0263339	7.27223
0.0263366	7.64212
0.0263393	8.04668
0.026342	8.48879
0.0263445	8.94861
0.026347	9.42336
0.0263494	9.93632
0.0263519	10.4897
0.0263543	11.0855
0.026358	12.0627
0.0263616	13.144
0.0263652	14.2894
0.0263687	15.5061
0.0263733	17.2514

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0.0263861	22.3996
0.0263907	24.1667
0.0263942	25.355
0.0263977	26.3786
0.0264	26.9517
0.0264029	27.5359
0.0264059	27.955
0.0264088	28.2053
0.0264117	28.2898
0.0264147	28.2178
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0.0264215	27.525
0.0264254	26.8751
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0.0264547	20.2754
0.0264606	19.0765
0.0264665	17.9809
0.0264723	16.9881
0.0264782	16.0929
0.026484	15.2875
0.0264899	14.5635
0.0264958	13.9122
0.0265016	13.3255
0.0265095	12.631
0.0265173	12.0227
0.0265251	11.4875
0.0265329	11.0144
0.0265407	10.5942
0.0265525	10.0466
0.0265642	9.58034
0.0265752	9.20288
0.0265893	8.78575
0.0266047	8.40137
0.0266214	8.04996
0.0266382	7.74648
0.0266553	7.48174
0.0266785	7.17513
0.0266932	7.00595
0.0267225	6.71018
0.0267518	6.45464
0.0268251	5.87973
0.0268465	5.6916
0.0268599	5.55333
0.0268718	5.40748
0.0268822	5.25134
0.0268903	5.09955
0.0268962	4.96576

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0.0269057	4.68077
0.0269096	4.52519
0.0269133	4.35073
0.026916	4.19585
0.0269183	4.05179
0.0269209	3.85722
0.0269233	3.65721
0.0269259	3.42335
0.0269269	3.34835
0.0269276	3.30934
0.0269283	3.28961
0.0269285	3.28884
0.026929	3.2997
0.0269294	3.33001
0.0269298	3.36892
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0.0269304	3.4876
0.0269307	3.56703
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0.0269319	4.09881
0.0269322	4.29916
0.0269325	4.53243
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0.0269331	5.11119
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0.0269338	5.98888
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0.0269342	6.73721
0.0269345	7.16066
0.0269347	7.61823
0.0269349	8.11126
0.0269352	8.63998
0.0269354	9.20517
0.0269357	10.0578
0.026936	10.8453
0.0269364	11.9749
0.0269367	13.1917
0.0269371	14.4884
0.0269375	15.9271
0.026938	17.9429
0.0269396	24.1662
0.0269401	26.4498
0.0269406	28.038
0.0269411	29.6476
0.0269416	31.013
0.026942	31.9839

0.0269424	32.6868
0.0269428	33.1956
0.0269432	33.5126
0.0269436	33.6395
0.026944	33.5492
0.0269445	33.1715
0.0269449	32.716
0.0269454	31.7857
0.026946	30.6076
0.0269466	29.2399
0.0269475	26.7036
0.026949	22.5242
0.0269495	21.0659
0.0269501	19.7019
0.0269506	18.4465
0.0269512	17.3073
0.0269516	16.5026
0.026952	15.7675
0.0269525	15.0988
0.0269529	14.4932
0.0269535	13.6926
0.0269542	13.0075
0.0269548	12.4067
0.0269555	11.8692
0.0269562	11.4118
0.0269569	11.02
0.0269578	10.579
0.0269588	10.2105
0.0269597	9.89801
0.0269611	9.50826
0.026962	9.28893
0.0269637	8.94674
0.0269654	8.66696
0.0269672	8.4333
0.0269689	8.2349
0.026971	8.03019
0.0269741	7.77943
0.0269772	7.57785
0.0269807	7.39517
0.0269842	7.24446
0.0269902	7.03671
0.0269976	6.84352
0.0270059	6.67872
0.0270152	6.53757
0.0270272	6.39637
0.0270421	6.26383
0.0270643	6.11579
0.0270791	6.03832
0.0271125	5.90113
0.0271569	5.76545

0.0272162	5.62987
0.0272978	5.48909
0.027409	5.34312
0.027572	5.17875
0.0278138	4.9861
0.0281373	4.76352
0.0281622	4.75555
0.0281792	4.76666
0.028189	4.79886
0.0281947	4.84524
0.0281975	4.88685
0.0282003	4.95036
0.0282022	5.02233
0.0282035	5.09233
0.0282047	5.18083
0.0282057	5.29235
0.0282065	5.40779
0.0282073	5.56365
0.0282078	5.6983
0.0282083	5.86503
0.0282088	6.04878
0.0282093	6.27167
0.0282097	6.5416
0.02821	6.75198
0.0282104	6.98994
0.0282107	7.25841
0.028211	7.54599
0.0282112	7.85082
0.0282115	8.18813
0.0282118	8.5602
0.0282121	8.96923
0.0282124	9.41726
0.0282127	9.90604
0.0282129	10.4371
0.0282134	11.2924
0.0282138	12.2301
0.0282142	13.2598
0.0282146	14.3794
0.028215	15.5819
0.0282154	16.9825
0.0282161	19.3081
0.0282176	24.2067
0.0282182	26.3584
0.0282186	27.5204
0.028219	28.4455
0.0282195	29.5189
0.02822	30.2655
0.0282204	30.7307
0.0282208	31.0059
0.028221	31.0385

0.0282214	30.9495
0.0282218	30.7217
0.0282222	30.1715
0.0282226	29.4821
0.028223	28.7216
0.0282234	27.8383
0.0282238	26.5869
0.0282243	25.206
0.0282249	22.9731
0.0282263	18.3643
0.0282267	17.0287
0.0282272	15.4898
0.0282276	14.4094
0.028228	13.3999
0.0282283	12.4651
0.0282287	11.5385
0.0282292	10.6717
0.0282295	10.1473
0.0282297	9.66426
0.02823	9.22099
0.0282303	8.81579
0.0282306	8.44665
0.028231	7.95574
0.0282314	7.53352
0.0282319	7.17255
0.0282323	6.86509
0.0282327	6.60432
0.028233	6.4531
0.0282335	6.22435
0.028234	6.03652
0.0282345	5.88197
0.0282352	5.69894
0.028236	5.5597
0.0282367	5.45184
0.0282376	5.35448
0.0282388	5.25045
0.0282407	5.14116
0.0282419	5.08746
0.0282448	4.99852
0.0282476	4.93816
0.0282527	4.86711
0.028259	4.81476
0.0282704	4.76095
0.0282885	4.71594
0.028324	4.66754
0.0284623	4.55147
0.0287293	4.36185
0.0288361	4.31007
0.0288856	4.30178
0.0289351	4.31327

0.0289817	4.35381
0.0290128	4.40643
0.0290361	4.46588
0.0290594	4.5488
0.0290827	4.66363
0.0290982	4.76374
0.0291137	4.88831
0.0291293	5.04392
0.0291409	5.18618
0.0291526	5.35561
0.0291642	5.55823
0.0291755	5.79238
0.0291865	6.06969
0.0291939	6.28586
0.0292013	6.53211
0.0292087	6.81242
0.029216	7.13316
0.0292234	7.50322
0.029229	7.82442
0.0292349	8.19773
0.0292407	8.61938
0.0292465	9.09734
0.0292523	9.64129
0.0292582	10.2629
0.0292621	10.7273
0.0292659	11.2375
0.0292698	11.7991
0.0292737	12.4186
0.0292776	13.1036
0.0292815	13.8626
0.0292853	14.7056
0.0292892	15.644
0.0292923	16.4722
0.0292954	17.3774
0.0292986	18.3681
0.0293017	19.4536
0.0293048	20.6443
0.0293079	21.9513
0.029311	23.387
0.0293141	24.9643
0.0293176	26.9249
0.0293211	29.1012
0.0293246	31.5114
0.0293281	34.1706
0.0293316	37.088
0.0293352	40.3546
0.0293388	43.9249
0.0293436	49.007
0.0293521	58.0896
0.0293554	61.2685

0.0293586	64.0662
0.0293608	65.6367
0.0293629	66.9159
0.0293651	67.8629
0.0293672	68.4463
0.0293694	68.6454
0.0293714	68.4773
0.0293734	67.9712
0.0293747	67.4521
0.0293774	66.0061
0.0293801	64.0744
0.0293827	61.7972
0.0293866	57.8625
0.0293932	50.6287
0.0293984	44.8255
0.0294022	40.8542
0.0294057	37.4344
0.0294092	34.2796
0.0294127	31.3969
0.0294162	28.7808
0.0294197	26.418
0.0294232	24.2902
0.0294267	22.3774
0.0294302	20.6589
0.0294337	19.115
0.0294372	17.7271
0.0294397	16.8122
0.0294424	15.9012
0.0294451	15.0607
0.0294479	14.2847
0.0294506	13.5676
0.0294547	12.5916
0.0294587	11.7218
0.029462	11.0866
0.0294659	10.4099
0.0294698	9.8015
0.0294737	9.25434
0.0294776	8.76235
0.0294814	8.32043
0.0294853	7.92423
0.0294892	7.57014
0.029493	7.26618
0.0294965	7.00621
0.0295001	6.77642
0.0295037	6.57552
0.0295073	6.4026
0.0295109	6.25727
0.0295145	6.13943
0.0295181	6.0492
0.0295218	5.98658

0.0295254	5.95358
0.0295272	5.94899
0.0295304	5.96075
0.0295336	5.99855
0.0295368	6.06388
0.02954	6.15873
0.0295433	6.28533
0.0295465	6.44608
0.0295497	6.64405
0.0295529	6.88328
0.0295563	7.19051
0.0295597	7.55599
0.0295631	7.98628
0.0295654	8.31288
0.0295677	8.67425
0.02957	9.07321
0.0295723	9.51284
0.0295746	9.9965
0.0295769	10.5278
0.0295792	11.1108
0.0295814	11.7497
0.0295837	12.449
0.029586	13.2138
0.0295883	14.0492
0.0295904	14.866
0.0295931	16.0583
0.0295959	17.378
0.0295986	18.8358
0.0296013	20.4419
0.0296041	22.2063
0.0296068	24.138
0.0296096	26.2438
0.0296123	28.5284
0.0296151	30.9928
0.0296178	33.6327
0.0296207	36.555
0.0296246	40.765
0.029636	53.7935
0.0296396	57.5249
0.0296431	60.8793
0.0296457	63.064
0.0296484	64.9092
0.029651	66.383
0.0296537	67.4528
0.0296563	68.1101
0.029659	68.3619
0.0296622	68.1561
0.0296654	67.449
0.0296686	66.3161
0.0296718	64.838

0.0296766	62.1447
0.0296846	56.9794
0.0296919	52.1167
0.0296992	47.5087
0.0297047	44.3291
0.0297102	41.4173
0.0297157	38.7741
0.0297212	36.387
0.0297267	34.2367
0.0297322	32.3011
0.0297377	30.5581
0.0297431	28.9864
0.0297486	27.5667
0.0297541	26.2814
0.0297614	24.7504
0.0297688	23.3992
0.0297761	22.2013
0.0297834	21.1345
0.0297907	20.1802
0.029798	19.3229
0.0298055	18.5383
0.0298168	17.4873
0.0298281	16.5742
0.0298397	15.7646
0.0298513	15.048
0.029863	14.4164
0.029875	13.8414
0.029887	13.3314
0.0299042	12.6941
0.0299225	12.1118
0.0299408	11.6109
0.029959	11.1782
0.0299762	10.8227
0.0300002	10.3969
0.0300242	10.0445
0.030046	9.78872
0.0300654	9.62334
0.0300768	9.56837
0.0300831	9.55891
0.0300917	9.58231
0.0300997	9.66342
0.0301048	9.76482
0.03011	9.92815
0.0301133	10.085
0.0301167	10.3003
0.0301189	10.4887
0.0301212	10.7259
0.0301234	11.0284
0.0301251	11.3122
0.0301268	11.6602

0.0301283	12.051
0.0301296	12.4336
0.0301308	12.8915
0.0301321	13.4453
0.0301329	13.8812
0.0301337	14.3828
0.0301345	14.9631
0.0301352	15.5316
0.030136	16.1812
0.0301367	16.9267
0.0301374	17.7849
0.0301381	18.7761
0.0301388	19.8841
0.0301394	21.139
0.0301399	22.0782
0.0301403	23.1085
0.0301408	24.2372
0.0301412	25.4718
0.0301417	26.8195
0.0301421	28.2871
0.0301426	29.8804
0.030143	31.6037
0.0301435	33.4598
0.0301441	36.4944
0.0301448	39.8213
0.0301455	43.416
0.0301464	48.8179
0.0301486	61.9813
0.0301492	65.4984
0.0301499	68.721
0.0301505	71.5445
0.0301511	73.8144
0.0301517	75.5395
0.0301522	76.4393
0.0301526	76.9804
0.030153	77.1521
0.0301535	77.0176
0.0301541	76.2423
0.0301547	74.8083
0.0301552	73.2672
0.0301557	71.3938
0.0301563	68.4495
0.030157	65.0956
0.0301579	59.6814
0.0301598	48.4778
0.0301606	43.9088
0.0301612	40.6857
0.0301618	37.673
0.0301624	34.889
0.030163	32.3432

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0.0301639	29.0049
0.0301644	27.5232
0.0301648	26.16
0.0301653	24.9081
0.0301657	23.7613
0.0301662	22.7118
0.0301668	21.3045
0.0301675	20.0758
0.0301682	19.0026
0.0301689	18.064
0.0301695	17.2412
0.0301702	16.518
0.0301709	15.8621
0.0301716	15.2833
0.0301726	14.5352
0.0301737	13.9048
0.0301747	13.3686
0.0301757	12.9084
0.0301768	12.4957
0.0301784	11.976
0.0301801	11.5493
0.0301817	11.1939
0.0301833	10.8941
0.0301855	10.5556
0.0301877	10.2734
0.0301911	9.93651
0.0301946	9.66628
0.0301983	9.43929
0.0302032	9.20378
0.0302094	8.98067
0.0302155	8.8098
0.0302248	8.61438
0.0302352	8.4505
0.0302516	8.25695
0.0302712	8.08341
0.0302964	7.90941
0.0303277	7.73579
0.030377	7.51727
0.0304308	7.32465
0.0305025	7.11563
0.0305831	6.92536
0.0306817	6.73758
0.0308161	6.53648
0.0309775	6.35164
0.0311632	6.18908
0.0313988	6.03352
0.0316906	5.89144
0.0320294	5.77311
0.0323494	5.7002

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0.032613	5.69797
0.0326883	5.73482
0.0327377	5.79221
0.0327701	5.86305
0.0327938	5.94901
0.0328094	6.0341
0.0328236	6.14364
0.0328363	6.28352
0.032845	6.41487
0.0328521	6.55261
0.0328591	6.72996
0.0328638	6.87822
0.0328685	7.05872
0.0328732	7.28161
0.0328768	7.48509
0.0328803	7.72882
0.0328838	8.01992
0.0328864	8.28027
0.032889	8.58599
0.0328916	8.94823
0.0328942	9.38165
0.0328962	9.76894
0.0328982	10.2195
0.0328997	10.6076
0.0329011	11.0468
0.0329026	11.538
0.032904	12.079
0.0329054	12.6965
0.0329068	13.4047
0.0329082	14.2212
0.0329092	14.8359
0.0329101	15.5154
0.0329111	16.268
0.032912	17.1031
0.032913	18.0309
0.0329139	19.0628
0.0329148	20.211
0.0329158	21.4882
0.0329167	22.9073
0.0329175	24.2341
0.0329185	26.0364
0.0329195	28.0275
0.0329205	30.2105
0.0329215	32.5811
0.0329225	35.1233
0.0329238	38.729
0.0329264	46.2003
0.0329277	49.6938
0.0329287	51.9588

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0.0329306	55.378
0.0329312	56.1015
0.0329319	56.5865
0.0329325	56.8216
0.0329328	56.8433
0.0329335	56.69
0.0329341	56.275
0.0329348	55.6071
0.0329354	54.7006
0.0329362	53.4216
0.0329369	51.8993
0.032938	49.2434
0.0329391	46.2649
0.0329426	36.0895
0.0329439	32.5102
0.0329449	30.0235
0.0329459	27.7305
0.0329469	25.5441
0.0329477	24.092
0.0329484	22.7524
0.0329492	21.5202
0.0329499	20.3894
0.0329507	19.3531
0.0329514	18.4044
0.0329522	17.5362
0.032953	16.6472
0.032954	15.7577
0.0329549	14.9602
0.0329559	14.2442
0.0329568	13.6001
0.0329578	13.0196
0.0329587	12.4952
0.0329601	11.8001
0.0329615	11.198
0.0329629	10.6742
0.0329643	10.2161
0.0329658	9.81356
0.0329676	9.34904
0.0329697	8.9259
0.0329717	8.56616
0.0329737	8.25794
0.0329757	7.99202
0.0329784	7.69093
0.0329815	7.402
0.0329847	7.16431
0.0329868	7.02857
0.0329909	6.80022
0.0329951	6.61699
0.0329998	6.45104

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0.0330116	6.16136
0.0330187	6.04327
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0.0330577	5.71912
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0.0331142	5.57329
0.0331636	5.52426
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0.0335313	5.44342
0.0337357	5.43516
0.0339627	5.45048
0.0341187	5.49176
0.0342237	5.54956
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0.0343577	5.70085
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0.0344485	5.9137
0.0344848	6.04979
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0.0345574	6.49587
0.0345756	6.66703
0.0345937	6.87585
0.0346113	7.12449
0.0346245	7.34949
0.0346369	7.5997
0.0346489	7.88623
0.0346609	8.22581
0.0346696	8.51025
0.0346782	8.83664
0.0346868	9.21281
0.0346955	9.64874
0.0347036	10.1284
0.0347098	10.5389
0.0347159	11.0008
0.034722	11.5223
0.0347281	12.1135
0.0347343	12.7868
0.0347404	13.5567
0.0347465	14.4411
0.0347506	15.1047
0.0347547	15.8363
0.0347588	16.6442
0.0347626	17.486
0.0347663	18.3566
0.0347699	19.3117
0.0347735	20.3607
0.0347772	21.5138

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0.0347953	29.2453
0.0347994	31.5313
0.0348035	34.0448
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0.0348458	61.7224
0.0348484	61.8892
0.0348512	61.6625
0.0348541	61.0153
0.0348569	59.9759
0.0348598	58.5872
0.0348633	56.4818
0.0348668	54.0477
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0.0348809	43.09
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0.0349086	26.2196
0.0349118	24.8854
0.0349154	23.4879
0.0349195	22.0642
0.0349236	20.7823
0.0349277	19.6271
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0.0349359	17.6435
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0.0349665	12.849
0.0349726	12.2197
0.0349788	11.6638
0.0349849	11.1708
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0.0350582	7.99439
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0.0351204	6.97416
0.0351386	6.79071
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0.035184	6.46107
0.0352112	6.3277
0.0352385	6.231
0.0352657	6.16662
0.0352929	6.13413
0.0353043	6.13067
0.0353298	6.14952
0.0353474	6.18922
0.0353656	6.26281
0.0353821	6.37149
0.0353933	6.47825
0.0354045	6.62505
0.0354139	6.79574
0.035421	6.9663
0.0354258	7.11432
0.0354308	7.30573
0.0354343	7.47705
0.0354374	7.66539
0.0354394	7.82081
0.0354415	8.01335
0.0354434	8.24719
0.0354447	8.44819
0.035446	8.70303
0.035447	8.9518
0.035448	9.28168
0.0354487	9.545
0.0354495	9.84726
0.0354502	10.1909
0.0354512	10.7838
0.0354523	11.4581
0.0354546	12.9862
0.0354554	13.5196
0.0354563	13.9453
0.0354569	14.1568
0.0354574	14.2983
0.035458	14.3614
0.0354583	14.3617

0.0354589	14.2979
0.0354594	14.1453
0.03546	13.9198
0.0354604	13.6883
0.0354611	13.2257
0.0354619	12.6061
0.0354631	11.6096
0.0354646	10.2726
0.0354654	9.60579
0.0354661	9.1579
0.0354666	8.79622
0.0354672	8.48526
0.0354678	8.23991
0.0354683	8.04448
0.0354688	7.88829
0.0354695	7.73578
0.0354702	7.63934
0.0354709	7.58996
0.0354716	7.57879
0.0354727	7.6161
0.0354737	7.69498
0.0354757	7.91724
0.0354783	8.26972
0.0354825	8.87086
0.0354868	9.52941
0.0354896	10.015
0.0354924	10.5485
0.0354952	11.1391
0.035498	11.7956
0.0355006	12.4881
0.0355033	13.2539
0.035506	14.0973
0.0355086	15.0199
0.0355113	16.0188
0.0355153	17.6361
0.0355212	20.1239
0.0355241	21.2567
0.0355269	22.2495
0.0355288	22.7961
0.0355307	23.2258
0.0355326	23.5214
0.0355345	23.6709
0.0355355	23.6887
0.035537	23.6395
0.0355386	23.4907
0.0355409	23.0923
0.0355432	22.5087
0.0355448	22.0344
0.0355479	20.9352
0.0355525	19.1002

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0.0355606	15.9439
0.0355641	14.7577
0.0355664	14.0383
0.0355692	13.2431
0.035572	12.529
0.0355748	11.8902
0.0355776	11.3201
0.0355804	10.8118
0.0355832	10.3584
0.0355861	9.95375
0.0355889	9.59197
0.0355931	9.11863
0.0355973	8.71549
0.0356015	8.3703
0.0356057	8.07313
0.0356113	7.73782
0.0356169	7.45855
0.0356225	7.22384
0.0356281	7.02488
0.0356337	6.8549
0.035642	6.64629
0.0356503	6.47635
0.0356627	6.27498
0.035676	6.11091
0.0356851	6.02036
0.0357033	5.87727
0.0357201	5.7775
0.0357454	5.66595
0.0357706	5.58432
0.0358043	5.50463
0.0358541	5.42251
0.0359365	5.33545
0.0360399	5.26611
0.0362362	5.18214
0.036685	5.0559
0.0371619	4.92214
0.0373863	4.83258
0.0375406	4.74254
0.0376338	4.66449
0.0377109	4.5746
0.0377687	4.48087
0.0378072	4.39789
0.0378457	4.28864
0.0378746	4.18051
0.0378931	4.09419
0.0379107	3.99425
0.0379276	3.87735
0.0379396	3.77664
0.0379516	3.65709

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0.0379715	3.40236
0.0379808	3.24809
0.037989	3.08885
0.0379944	2.96684
0.0379998	2.82972
0.0380046	2.69305
0.0380094	2.5405
0.0380142	2.37031
0.0380191	2.18145
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0.0380305	1.6793
0.038033	1.57616
0.0380342	1.5307
0.0380355	1.49187
0.0380366	1.46519
0.0380377	1.44833
0.0380384	1.44411
0.0380392	1.44691
0.0380399	1.45817
0.0380407	1.47965
0.0380412	1.50373
0.0380417	1.53267
0.0380422	1.56724
0.0380427	1.60956
0.0380432	1.66066
0.0380436	1.72164
0.0380441	1.79379
0.0380446	1.87854
0.0380451	1.97751
0.0380456	2.09246
0.0380461	2.2254
0.0380464	2.32508
0.0380467	2.43446
0.038047	2.55428
0.0380473	2.68533
0.0380477	2.82846
0.038048	2.98458
0.0380483	3.15463
0.0380486	3.3396
0.0380489	3.54051
0.0380493	3.75848
0.0380496	3.99463
0.0380499	4.25006
0.0380502	4.52596
0.0380506	4.82353
0.0380509	5.14399
0.0380512	5.48851
0.0380515	5.8583
0.0380519	6.37879

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0.0380527	7.46547
0.0380531	8.0738
0.0380535	8.72716
0.038054	9.60949
0.0380544	10.5002
0.0380548	11.4563
0.0380553	12.4779
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0.0380562	14.7127
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0.0380575	18.4983
0.0380584	21.2493
0.0380608	28.7653
0.0380617	31.4397
0.0380623	33.251
0.038063	34.9104
0.0380636	36.3859
0.0380643	37.7084
0.038065	38.7738
0.0380656	39.5345
0.0380662	40.0211
0.0380668	40.2811
0.0380673	40.3225
0.0380679	40.1952
0.0380685	39.8545
0.0380691	39.3203
0.0380698	38.5951
0.0380707	37.2304
0.0380717	35.6187
0.038073	33.2434
0.0380749	29.5689
0.0380762	27.2399
0.0380772	25.6149
0.0380781	24.1133
0.0380791	22.7408
0.0380801	21.4964
0.038081	20.3737
0.038082	19.3641
0.0380829	18.4569
0.0380839	17.6416
0.0380852	16.6685
0.0380865	15.8112
0.0380878	15.062
0.0380892	14.4034
0.0380904	13.8648
0.038092	13.2149
0.0380937	12.6501
0.0380953	12.1553
0.0380976	11.5845

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0.0381258	8.24321
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0.0381565	7.1154
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0.0382213	6.41738
0.038227	6.41224
0.0382376	6.43214
0.0382455	6.47822
0.0382519	6.54385
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0.0382689	6.93461
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0.0382786	7.48039
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0.0382864	8.40153
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0.0382907	9.34785
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0.0382947	10.9832
0.0382955	11.4655
0.0382963	12.0023
0.0382971	12.6247
0.0382979	13.3495
0.0382984	13.8989
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0.0382994	15.1856
0.0382999	15.8583
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0.0383018	19.2611
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0.038303	22.2793
0.0383036	24.0422
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0.0383055	30.357
0.0383063	33.6077
0.0383073	37.7631
0.038309	44.867
0.03831	48.8782
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0.038312	55.2367
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0.0383131	57.0637
0.0383136	57.5461
0.038314	57.7212
0.0383146	57.6287
0.0383151	57.2248
0.0383157	56.3183
0.0383164	54.9938
0.038317	53.3
0.0383177	51.2962
0.0383185	48.2045
0.0383197	43.6845
0.0383211	38.1306
0.0383219	35.3311
0.0383226	32.7067
0.0383233	30.3603
0.038324	28.2983
0.0383245	26.9008
0.0383251	25.6323
0.0383256	24.4906
0.038326	23.6335
0.0383266	22.7137
0.0383271	21.9066
0.0383276	21.205
0.0383282	20.6016
0.0383287	20.0887
0.0383295	19.4731
0.03833	19.1548
0.0383306	18.859
0.0383315	18.5803
0.0383324	18.4544
0.0383329	18.4278
0.038334	18.4921
0.0383351	18.6871
0.0383361	18.9748

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0.0383453	22.3976
0.0383463	22.5558
0.0383474	22.6234
0.0383485	22.5721
0.0383495	22.4113
0.0383506	22.1436
0.038352	21.6323
0.0383533	20.9679
0.0383546	20.2372
0.0383559	19.4305
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0.0383645	14.038
0.0383659	13.3087
0.0383673	12.644
0.0383687	12.0421
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0.0383743	10.1815
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0.0383848	8.24331
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0.0383905	7.65637
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0.0384099	6.59645
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0.0384422	5.95935
0.0384563	5.82308
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0.0384943	5.60376
0.0385111	5.54207
0.0385467	5.44738
0.0385976	5.35666
0.038668	5.27317
0.0387699	5.19129
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0.0408457	4.53008
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0.0408811	4.6143
0.0408971	4.69035
0.0409051	4.74455
0.0409152	4.83648
0.0409228	4.92997
0.0409303	5.05408
0.0409354	5.16042
0.0409404	5.29245
0.0409455	5.45874
0.0409496	5.62801
0.0409527	5.78079
0.0409557	5.96162
0.0409588	6.17765
0.0409619	6.43836
0.0409646	6.7076
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0.0409685	7.21563
0.0409705	7.53071
0.0409725	7.89828
0.040974	8.22087
0.0409755	8.58726
0.040977	9.00541
0.0409786	9.48492
0.0409801	10.0376
0.0409811	10.4537
0.0409821	10.9136
0.0409831	11.423
0.0409841	11.9884
0.0409851	12.6171
0.0409861	13.3172
0.0409871	14.0974
0.0409881	14.9675
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0.0409931	20.8617
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0.0409951	24.1827
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0.0410077	44.9816
0.0410081	45.0055
0.041009	44.8131
0.04101	44.2489
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0.0410145	37.5045
0.0410165	33.4647
0.0410186	28.97
0.0410201	26.2024
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0.041023	21.2252
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0.0410248	18.7073
0.0410257	17.6065
0.0410266	16.6034
0.0410275	15.6911
0.0410284	14.8624
0.0410293	14.11
0.0410303	13.3905
0.0410313	12.7078
0.0410323	12.0932
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0.0410343	11.0387
0.0410353	10.5857
0.0410368	9.98359
0.0410384	9.4608
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0.0410459	7.66221
0.0410482	7.30304
0.0410504	6.99695
0.0410527	6.73395
0.0410549	6.50634
0.0410579	6.24756
0.0410614	5.99716
0.0410649	5.7898
0.0410673	5.67067
0.0410719	5.46874
0.0410766	5.30489
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0.0411349	4.48859
0.0411488	4.41378
0.0411672	4.33683
0.0411946	4.24992
0.0412299	4.16389
0.0413106	4.00836
0.0414516	3.75992
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0.0414772	3.73679
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0.0414972	3.8076
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0.041503	3.90851
0.0415047	3.95982
0.0415064	4.02969
0.0415077	4.09974
0.0415089	4.19134
0.0415101	4.30181
0.0415109	4.40644
0.0415118	4.53477
0.0415127	4.69217
0.0415135	4.88463
0.0415142	5.06629
0.0415149	5.27713
0.0415156	5.52012
0.0415163	5.79764
0.0415169	6.10335
0.0415176	6.44396
0.0415183	6.81869
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0.04152	7.88394
0.0415222	9.4666
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0.0415241	10.5739
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0.0415258	11.2646
0.0415264	11.3773
0.041527	11.4252
0.0415276	11.4054
0.041528	11.3393
0.0415287	11.1915
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0.0415366	6.46513
0.0415373	6.131
0.041538	5.83077
0.0415387	5.55121
0.0415394	5.30649
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0.0415408	4.91045
0.0415417	4.70696
0.0415427	4.54103
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0.0415445	4.29496
0.0415458	4.17697
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0.0419934	1.20085
0.0419985	1.19241
0.0420014	1.19157
0.0420059	1.19707
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0.0420164	1.25072

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0.0420357	1.59146
0.0420378	1.65624
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0.0420739	4.86069
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0.0420783	5.72977
0.0420805	6.23111
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0.0420891	8.78549
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0.0421089	19.2322
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0.0421457	46.7775
0.0421479	47.2086
0.0421504	47.4042
0.0421534	47.2843
0.0421564	46.8184
0.0421594	46.0617
0.0421624	45.0737
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0.0422262	22.1316
0.0422324	20.9371
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0.0423283	12.2209
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0.0423577	11.1279
0.042372	10.7007
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0.0424382	9.30171
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0.0426886	7.64008
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0.0426976	8.66978
0.0426985	8.89674
0.0426993	9.16399
0.0427001	9.47606
0.042701	9.83658
0.0427018	10.2476
0.0427026	10.7089
0.0427039	11.4873
0.0427055	12.6411
0.0427073	13.8877
0.0427082	14.4904
0.0427092	15.0109
0.0427099	15.3286
0.0427106	15.572
0.0427113	15.7312
0.0427121	15.8021
0.0427128	15.7661
0.0427134	15.6419
0.0427139	15.5124
0.0427148	15.1831
0.0427156	14.7528
0.0427165	14.2437
0.0427173	13.6801
0.0427198	11.9403
0.042721	11.1307
0.0427219	10.6408
0.0427227	10.1974
0.0427235	9.80267
0.0427244	9.45589
0.0427252	9.15462
0.042726	8.89509
0.0427273	8.57428
0.0427285	8.33192
0.0427296	8.13895
0.0427308	7.9844
0.042732	7.85947
0.0427339	7.7087
0.0427366	7.54769
0.0427394	7.43469
0.0427435	7.31636
0.04275	7.19767

0.0427568	7.11442
0.0427683	7.01996
0.0427909	6.90035
0.0428303	6.75763
0.0428863	6.60436
0.0429693	6.42639
0.0430606	6.27169
0.0431809	6.11081
0.0433262	5.96024
0.0435088	5.81515
0.0437578	5.66709
0.0440856	5.52413
0.0444699	5.40054
0.0445155	5.39377
0.0445439	5.40379
0.0445594	5.4345
0.0445669	5.47474
0.0445716	5.5243
0.0445747	5.58017
0.0445771	5.64516
0.0445795	5.74658
0.0445808	5.82698
0.044582	5.93463
0.0445833	6.08029
0.0445843	6.22273
0.044585	6.35524
0.0445858	6.53371
0.0445867	6.74774
0.0445875	7.00178
0.0445882	7.26161
0.0445892	7.65143
0.0445901	8.10064
0.0445911	8.60423
0.0445923	9.34052
0.0445945	10.6716
0.0445955	11.1868
0.0445963	11.5948
0.0445972	11.9131
0.0445978	12.0661
0.0445984	12.1686
0.0445991	12.214
0.0445997	12.1902
0.0446003	12.099
0.0446011	11.9139
0.0446017	11.6963
0.0446027	11.2818
0.0446033	10.9589
0.0446045	10.2425
0.0446064	9.12306
0.0446074	8.59645

0.0446083	8.11462
0.0446093	7.68652
0.0446102	7.3159
0.0446108	7.10044
0.0446118	6.82403
0.0446127	6.59564
0.0446137	6.40887
0.0446146	6.25716
0.0446157	6.11617
0.0446168	6.00563
0.0446182	5.89337
0.0446204	5.77586
0.0446228	5.69082
0.0446267	5.60099
0.0446314	5.53651
0.0446388	5.47867
0.0446518	5.42828
0.0446746	5.38936
0.0447281	5.35337
0.0449801	5.28217
0.0449813	5.28203
0.0449872	5.29168
0.0449896	5.31795
0.0449915	5.3696
0.0449929	5.42838
0.0449941	5.51264
0.0449954	5.62572
0.0449967	5.76786
0.0449987	6.02598
0.0450012	6.39583
0.0450031	6.64458
0.045005	6.84407
0.0450068	6.98423
0.0450087	7.07051
0.0450112	7.1265
0.0450149	7.15002
0.06	9.05636
0.1	6.84362
0.105	6.44322
0.11	6.6866
0.115	7.63971
0.12	8.49218
0.125	8.38781
0.13	7.50237
0.135	7.78713
0.14	8.12274
0.145	8.33105
0.1475	7.33814
0.1495	7.52416
0.149984	6.74987

0.15	6.73847
0.150021	6.77237
0.150251	7.3027
0.150335	7.48196
0.15067	7.56959
0.151002	6.97723
0.152	6.81391
0.1525	6.81332
0.153	6.81362
0.154	6.89214
0.155	6.65356
0.156	6.4448
0.157	6.56263
0.158	6.43233
0.159	5.97599
0.16	6.06252
0.161	5.81829
0.162	6.26401
0.163	6.7838
0.164	7.392
0.165	7.34161
0.166	6.86524
0.167	6.83506
0.168	7.20291
0.169	7.34313
0.17	7.4331
0.171	7.46212
0.172	7.18576
0.173	7.48202
0.174	7.44124
0.175	6.86528
0.176	6.70599
0.177	7.11505
0.178	7.90134
0.179	8.2198
0.18	7.71468
0.181	7.53334
0.182	8.4905
0.183	8.81973
0.184	8.3569
0.185	8.77676
0.186	7.66822
0.187	7.70406
0.188	7.60173
0.189	7.08687
0.19	7.33134
0.191	7.04538
0.192	6.82582
0.193	7.08184
0.195	6.70656

0.196	7.13223
0.197	7.20183
0.198	7.42151
0.199	7.13448
0.2	7.00108
0.201	6.23747
0.202	6.22496
0.203	6.38311
0.204	6.30446
0.205	6.27409
0.206	6.20745
0.207	6.50265
0.208	6.45321
0.209	6.36555
0.21	6.56533
0.211	7.01952
0.212	6.48575
0.213	6.2967
0.214	6.64478
0.215	7.13953
0.221	7.40983
0.222	8.74434
0.223	8.98721
0.224	8.00568
0.225	8.93127
0.226	7.80814
0.22675	8.67694
0.227	8.95285
0.22725	8.31906
0.227992	6.3925
0.228008	6.37976
0.229	7.33578
0.23	7.44505
0.231	7.87264
0.232	8.37749
0.233	7.92116
0.234	8.69726
0.235	8.63269
0.236	8.32142
0.237	7.18353
0.239	7.12409
0.24	7.06421
0.241	6.95508
0.242	6.91517
0.243	7.02379
0.244	7.16053
0.245	7.81063
0.246	8.28598
0.247	9.52236
0.248	9.1046

0.249	8.65649
0.25	8.53471
0.251	8.5335
0.252	8.48519
0.253	8.69162
0.254	8.58209
0.255	8.06724
0.256	7.89376
0.257	7.55981
0.258	8.13055
0.259	8.41145
0.26	8.37618
0.261	8.21786
0.262	8.89992
0.263	9.19842
0.264	8.58541
0.265	7.94569
0.266	7.2216
0.267	7.3944
0.268	7.74443
0.269	8.41112
0.27	8.95048
0.271	9.12385
0.272	7.42734
0.273	7.08988
0.274	7.56678
0.275	6.96141
0.276	7.20472
0.277	7.72806
0.278	7.43952
0.279	7.94837
0.28	7.70716
0.282	8.01463
0.283	8.35987
0.284	8.10865
0.285	8.56877
0.286	8.29358
0.287	7.74697
0.288	7.56698
0.289	7.77401
0.29	8.08515
0.291	8.79047
0.292	9.21931
0.293	8.99332
0.294	8.51852
0.295	8.63431
0.296	8.88205
0.297	8.90187
0.298	8.52998
0.299	9.06435

0.3	8.07491
0.301	8.5031
0.302	8.59939
0.303	7.87311
0.304	8.33077
0.305	8.43279
0.306	8.3485
0.307	9.02679
0.308	8.71917
0.309	9.1786
0.31	8.87937
0.311	9.41664
0.312	8.87125
0.313	9.35056
0.3135	8.48154
0.314	7.60931
0.315	7.49387
0.316	7.20777
0.317	7.27506
0.318	7.47125
0.319	7.20168
0.32	6.18518
0.321	6.03006
0.322	6.60236
0.323	6.33637
0.324	6.65607
0.325	5.68886
0.326	6.02759
0.327	5.39305
0.328	5.26843
0.329	5.47654
0.33	6.14173
0.331	6.97007
0.332	7.66129
0.333	8.25047
0.334	8.47893
0.335	7.88216
0.336	8.27371
0.337	7.006
0.338	6.79309
0.339	7.8621
0.34	7.46976
0.341	7.70276
0.342	7.77057
0.343	7.18198
0.344	7.43451
0.345	7.8315
0.346	7.9458
0.347	8.35128
0.348	8.43261

0.349	8.24841
0.35	8.64589
0.351	7.77898
0.352	7.14253
0.353	7.39391
0.354	7.68898
0.355	7.18617
0.356	6.56049
0.357	6.33928
0.358	6.62462
0.359	7.09524
0.36	7.98816
0.361	8.33841
0.362	7.82936
0.363	7.82255
0.364	7.47088
0.365	7.93449
0.366	8.18779
0.367	7.48541
0.368	8.13944
0.37	8.47581
0.371	8.96119
0.372	9.13047
0.373	8.72477
0.374	8.16467
0.375	7.3206
0.376	6.89041
0.377	7.04557
0.378	7.42533
0.379	8.14951
0.38	8.44309
0.381	8.63836
0.382	9.5729
0.383	9.00913
0.384	8.99205
0.385	8.58741
0.386	8.4687
0.387	8.98036
0.388	9.04941
0.389	8.31884
0.39	7.91993
0.391	7.85733
0.392	8.19277
0.393	8.40245
0.394	8.36654
0.395	8.61855
0.396	8.02273
0.397	8.4017
0.398	8.5103
0.399	7.96848

0.4	7.73279
0.401	7.02903
0.402	6.48164
0.403	6.51376
0.404	6.31884
0.405	6.50777
0.406	7.24382
0.407	7.27874
0.408	8.18766
0.409	8.46514
0.41	8.95157
0.411	9.17672
0.412	9.84936
0.413	9.98159
0.414	9.7329
0.415	9.15789
0.416	8.89638
0.417	8.80361
0.418	8.51695
0.419	8.44925
0.42	7.49365
0.421	7.34808
0.422	7.59502
0.423	8.01225
0.424	8.25489
0.425	8.64447
0.426	9.17705
0.42625	8.68797
0.426984	7.20833
0.427	7.1922
0.427031	7.20769
0.42775	8.00293
0.428	8.26837
0.429	7.58506
0.43	8.28943
0.431	8.73633
0.432	8.27845
0.433	8.37555
0.434	8.77738
0.435	8.42641
0.436	8.35047
0.438	7.19253
0.439	7.62949
0.44	7.69228
0.441	7.57924
0.442	8.26296
0.443	9.21976
0.444	10.0103
0.445	10.6365
0.446	10.3606

0.447	9.5006
0.448	9.42573
0.449	8.1561
0.45	8.20894
0.451	7.94773
0.452	8.20005
0.454	7.87657
0.455	8.09253
0.456	9.77653
0.457	9.53154
0.458	8.89108
0.459	9.1257
0.46	8.28886
0.461	8.01074
0.462	8.66162
0.463	7.81948
0.464	7.40726
0.465	7.29603
0.466	7.46337
0.467	7.67265
0.468	7.8478
0.469	8.73002
0.47	9.4679
0.471	8.14291
0.472	7.58777
0.473	7.3465
0.474	7.37312
0.475	7.32511
0.476	7.33473
0.477	7.4961
0.478	8.10103
0.479	8.62868
0.48	8.65176
0.481	8.40246
0.482	7.8565
0.483	7.43562
0.484	7.05731
0.485	6.95391
0.486	6.78741
0.487	7.01487
0.488	7.54148
0.489	8.03938
0.49	8.1537
0.491	8.31812
0.492	9.20344
0.493	8.95754
0.494	9.17957
0.495	8.90256
0.496	8.51204
0.497	7.72242

0.498	7.78641
0.499	8.28137
0.5	8.6692
0.501	8.57649
0.502	8.83536
0.503	7.99703
0.504	7.23366
0.505	7.45348
0.506	7.76018
0.507	7.72608
0.50725	8.14524
0.507969	9.38437
0.508	9.41934
0.508062	9.36693
0.509	8.29461
0.51	8.23551
0.511	8.41422
0.512	8.74312
0.513	7.69922
0.514	8.32894
0.515	8.58709
0.516	9.42345
0.51625	9.00098
0.516984	7.71216
0.517	7.69977
0.517031	7.71691
0.518	8.84218
0.519	8.86074
0.52	8.45979
0.521	8.5915
0.522	8.4704
0.523	9.228
0.523625	8.50148
0.523984	8.08056
0.524	8.07581
0.524047	8.12651
0.52475	9.16167
0.525	9.51524
0.526	8.90635
0.527	8.43103
0.528	8.78734
0.529	8.39909
0.53	8.58742
0.531	7.97354
0.532	8.44312
0.533	9.04555
0.534	10.1353
0.535	10.3455
0.536	10.9598
0.537	11.183

0.538	11.3139
0.5395	9.47177
0.54	8.86404
0.541	7.24783
0.54175	6.84738
0.542	6.72497
0.543	7.40231
0.544	8.2533
0.545	8.04674
0.547	8.22236
0.548	8.15197
0.549	7.78606
0.55	7.5387
0.551	7.15612
0.552	6.98628
0.553	7.03208
0.554	8.22332
0.555	8.54795
0.556	8.19687
0.557	8.11638
0.5585	8.46306
0.559	8.56641
0.56	7.85686
0.561	7.21765
0.562	6.73527
0.563	6.11563
0.564	6.25482
0.565	6.58857
0.566	6.39841
0.567	6.64234
0.568	6.83046
0.569	8.00625
0.57	8.73564
0.571	8.64293
0.572	8.39678
0.573	8.44638
0.574	8.86597
0.575	8.40099
0.576	8.70967
0.577	8.59189
0.578	8.17175
0.579	8.62705
0.58	8.36994
0.581	7.84276
0.582	8.21466
0.583	7.53088
0.584	7.41928
0.585	6.63502
0.586	6.81045
0.587	6.61834

0.588	6.84838
0.589	6.47891
0.58925	6.80428
0.59	7.81024
0.591	8.01935
0.592	7.69076
0.593	6.77286
0.594	6.46923
0.595	6.63263
0.596	6.71347
0.597	6.75595
0.598	7.05644
0.599	6.53098
0.6	6.54306
0.601	6.14667
0.602	5.98933
0.603	6.36989
0.604	6.4617
0.605	6.2763
0.606	6.22491
0.609	6.20302
0.61	6.02148
0.611	6.62307
0.612	6.19097
0.613	6.30442
0.614	6.53666
0.615	7.23698
0.617	7.77605
0.618	8.45361
0.619	8.07883
0.621	8.25876
0.622	9.01509
0.623	8.91241
0.624	8.58779
0.625	8.65088
0.626	8.36907
0.627	8.63727
0.628	8.17042
0.629	8.3487
0.63	7.93892
0.631	7.98199
0.632	7.79733
0.633	7.9512
0.634	7.82612
0.635	7.92033
0.636	7.60072
0.637	7.98972
0.638	8.01274
0.639	7.8818
0.64	7.42012

0.641	7.51635
0.642	7.96117
0.643	6.98946
0.644	7.43657
0.645	7.18899
0.646	7.42372
0.647	7.73438
0.648	6.97586
0.649	7.2935
0.65	7.71996
0.7	7.6227
0.805643	7.21204
0.85	6.99161
0.906349	6.7906
0.958732	6.53282
1.01104	6.27245
1.1	5.89431
1.2	5.56594
1.5	4.91518
1.52436	4.87934
1.7	4.23684
1.7648	4.14144
2	3.43971
2.2	3.10637
2.2476	3.07239
2.5	2.74172
2.55857	2.7333
2.6705	2.68752
2.90914	2.56313
3	2.44175
3.1024	2.40958
3.14231	2.38035
3.17451	2.34062
3.20054	2.29605
3.28434	2.25694
3.45893	2.14628
3.5	2.10979
3.55549	2.11599
3.60333	2.10131
3.67017	2.05815
3.7	2.03144
3.75745	2.036
3.82598	2.0296
3.89176	2.01865
3.95739	1.98788
4	1.96109
4.06844	2.01074
4.55057	2.01408
5	2.03913
5.5776	2.13166

6	2.20956
6.54585	2.34421
7	2.43819
7.5	2.49392
8.5	2.5498
9	2.5523
9.56701	2.5419
10	2.52465
10.1411	2.51651
10.2842	2.50826
10.4292	2.49989
10.5	2.49581
10.6481	2.48386
10.7984	2.47175
10.9507	2.45946
11.1052	2.447
11.2619	2.43437
11.4208	2.42155
11.5	2.41516
11.6067	2.42362
11.7704	2.4064
11.9365	2.38895
12	2.38227
12.1693	2.37044
12.341	2.35844
12.5151	2.34628
12.6917	2.33394
12.8707	2.32142
13.0523	2.30874
13.2364	2.29587
13.4232	2.28282
13.5	2.27745
13.6905	2.25263
13.8836	2.22746
14	2.2123
14.1975	2.19446
14.3978	2.17637
14.5	2.16714
14.7046	2.14278
14.912	2.11807
15	2.10759
15.2116	2.08816
15.4262	2.06845
15.6439	2.04847
15.8646	2.0282
16	2.01577
16.2257	1.99808
16.4546	1.98013
16.6868	1.96194
16.9222	1.94349

17	1.93739
17.2398	1.92226
17.4831	1.90691
17.5	1.90585
17.7469	1.88113
17.9973	1.85607
18	1.8558
18.2539	1.83968
18.5115	1.82333
18.7726	1.80675
19.0375	1.78993
19.3061	1.77288
19.5784	1.75559
19.8547	1.73806
20	1.72883

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#name: ENDF/B-VIII.0: Y-89(N,INL)Y-89

#X.axis: Incident Energy

#Y.axis: Cross Section

#wdata: 2

#ldata: 76

#data...

#	X MeV	Y barns
	0.919272	0
	1	0.059013
	1.5	0.19845
	1.52436	0.201348
	1.7	0.606296
	1.76436	0.637558
	2	1.11068
	2.2	1.24827
	2.2476	1.24842
	2.5	1.39984
	2.55857	1.38943
	2.59536	1.39123
	2.65179	1.39565
	2.90438	1.44465
	2.91389	1.44944
	2.92754	1.46357
	3	1.53927
	3.1024	1.53865
	3.14231	1.55511
	3.17451	1.58455
	3.2	1.62074
	3.28434	1.63929
	3.38101	1.67522

3.44919	1.70115
3.49036	1.72554
3.5	1.73332
3.54335	1.71906
3.55549	1.71666
3.59746	1.72007
3.60039	1.72101
3.66208	1.7474
3.67149	1.75385
3.7	1.77408
3.75745	1.76193
3.79022	1.75864
3.79527	1.75825
3.89176	1.7616
3.90612	1.76447
3.96852	1.78792
4	1.80494
4.02202	1.78658
4.03689	1.77465
4.06085	1.75723
4.06844	1.75197
4.5	1.7307
5	1.723
5.5	1.7163
6	1.715
6.5	1.7267
7	1.738
7.5	1.7466
8	1.753
8.5	1.7538
9	1.75
9.5	1.7421
10	1.731
10.5	1.7122
11	1.685
11.5	1.6522
12	1.528
12.5	1.308
13	1.084
13.5	0.89111
14	0.734
14.5	0.59743
15	0.491
15.5	0.41048
16	0.352
16.5	0.30954
17	0.276
17.5	0.24974
18	0.228009
18.5	0.21089

19	0.196
19.5	0.18317
20	0.172

//

#-----

#name: ENDF/B-VIII.0: Y-89(N,2N)Y-88
#X.axis: Incident Energy
#Y.axis: Cross Section
#wdata: 2
#ldata: 15
#data...

#	X	Y
#	MeV	barns
	11.6067	0
	12	0.0725038
	12.5	0.273305
	13	0.487844
	13.5	0.670103
	14	0.82353
	14.5	0.95614
	15	1.07
	15.5	1.145
	16	1.18
	16.5	1.21
	17	1.23
	18	1.24
	19	1.24
	20	1.23

//

#-----

#name: ENDF/B-VIII.0: Y-89(N,N+A)RB-85
#X.axis: Incident Energy
#Y.axis: Cross Section
#wdata: 2
#ldata: 18
#data...

#	X	Y
#	MeV	barns
	11.5	0
	12	6.02453e-12
	12.5	1.02094e-10
	13	6.89456e-10
	13.5	3.84275e-9
	14	1.41843e-7
	14.5	6.6871e-7
	15	3.20671e-6

15.5	1.16505e-5
16	2.63037e-5
16.5	8.13653e-5
17	0.000212457
17.5	0.000416716
18	0.000932594
18.5	0.00153775
19	0.00280518
19.5	0.004001
20	0.00576237

//

#-----

#

#name: ENDF/B-VIII.0: Y-89(N,N+P)SR-88

#X.axis: Incident Energy

#Y.axis: Cross Section

#wdata: 2

#ldata: 23

#data...

#	X	Y
---	---	---

#	MeV	barns
---	-----	-------

8.5	0
-----	---

9	1.48459e-5
---	------------

9.5	0.000562989
-----	-------------

10	0.00417013
----	------------

10.5	0.0137674
------	-----------

11	0.0298648
----	-----------

11.5	0.0511515
------	-----------

12	0.0734498
----	-----------

12.5	0.0779121
------	-----------

13	0.0722072
----	-----------

14	0.0580956
----	-----------

14.5	0.0500078
------	-----------

15	0.0451824
----	-----------

15.5	0.0398484
------	-----------

16	0.0353865
----	-----------

16.5	0.0327181
------	-----------

17	0.0328278
----	-----------

17.5	0.0322814
------	-----------

18	0.0314694
----	-----------

18.5	0.0337581
------	-----------

19	0.0363575
----	-----------

19.5	0.0381546
------	-----------

20	0.0421983
----	-----------

//

#-----

#

#name: ENDF/B-VIII.0: Y-89(N,2N+P)SR-87

#X.axis: Incident Energy

#Y.axis: Cross Section

#wdata: 2

#ldata: 2

#data...

X Y

MeV barns

19.5 0

20 5.83661e-9

//

#-----

#

#name: ENDF/B-VIII.0: Y-89(N,G)Y-90

#X.axis: Incident Energy

#Y.axis: Cross Section

#wdata: 2

#ldata: 10004

#data...

X Y

MeV barns

1e-11 64.308

1.10304e-11 61.2308

1.21669e-11 58.3009

1.34206e-11 55.5111

1.48034e-11 52.8549

1.63287e-11 50.3257

1.80111e-11 47.9176

1.98669e-11 45.6247

2.19139e-11 43.4415

2.41719e-11 41.3628

2.66625e-11 39.3836

2.94097e-11 37.499

3.244e-11 35.7047

3.57825e-11 33.9962

3.94694e-11 32.3694

4.35362e-11 30.8205

4.80221e-11 29.3457

5.29701e-11 27.9415

5.8428e-11 26.6045

6.44483e-11 25.3314

7.10888e-11 24.1193

7.84136e-11 22.9652

8.64931e-11 21.8663

9.54051e-11 20.8199

1.05235e-10 19.8237

1.16078e-10 18.8751

1.28039e-10 17.9719

1.41231e-10 17.1119

1.55784e-10 16.2931

1.71835e-10	15.5135
1.8954e-10	14.7711
2.0907e-10	14.0643
2.30612e-10	13.3913
2.54374e-10	12.7505
2.80584e-10	12.1404
3.09494e-10	11.5595
3.41383e-10	11.0063
3.76558e-10	10.4797
4.15358e-10	9.97821
4.58155e-10	9.50074
5.05362e-10	9.04612
5.57433e-10	8.61325
6.14869e-10	8.2011
6.78223e-10	7.80866
7.48105e-10	7.43501
8.25188e-10	7.07923
9.10213e-10	6.74048
1.004e-9	6.41794
1.10745e-9	6.11083
1.22155e-9	5.81841
1.34742e-9	5.53999
1.48625e-9	5.27489
1.63939e-9	5.02248
1.80831e-9	4.78214
1.99463e-9	4.55331
2.20016e-9	4.33542
2.42685e-9	4.12796
2.67691e-9	3.93042
2.95273e-9	3.74234
3.25697e-9	3.56326
3.59256e-9	3.39274
3.96272e-9	3.23039
4.37103e-9	3.0758
4.82141e-9	2.92861
5.31819e-9	2.78847
5.86616e-9	2.65503
6.47059e-9	2.52798
7.1373e-9	2.40701
7.87271e-9	2.29184
8.68389e-9	2.1822
9.57865e-9	2.07782
1.05656e-8	1.97845
1.16543e-8	1.88385
1.28551e-8	1.79379
1.41796e-8	1.70804
1.56406e-8	1.62639
1.72522e-8	1.5486
1.90298e-8	1.47449
2.09906e-8	1.40389

2.31534e-8	1.33666
2.52419e-8	1.28017
2.53e-8	1.2787
2.79068e-8	1.21756
3.07823e-8	1.15934
3.3954e-8	1.10384
3.74525e-8	1.05094
4.13115e-8	1.00055
4.55681e-8	0.95258
5.02633e-8	0.906923
5.54423e-8	0.863491
6.11549e-8	0.822209
6.74561e-8	0.782903
7.44066e-8	0.745391
8.20732e-8	0.709632
9.05297e-8	0.675588
9.98577e-8	0.643179
1.10147e-7	0.612337
1.21496e-7	0.583049
1.34014e-7	0.55518
1.47823e-7	0.528533
1.63054e-7	0.503143
1.79855e-7	0.478972
1.98386e-7	0.455962
2.18827e-7	0.434056
2.41375e-7	0.41325
2.68123e-7	0.3921
2.9575e-7	0.373226
3.26223e-7	0.355253
3.59836e-7	0.338143
3.96913e-7	0.321851
4.37809e-7	0.30634
4.8292e-7	0.291686
5.32679e-7	0.277609
5.87564e-7	0.264187
6.48105e-7	0.251405
7.14884e-7	0.239229
7.88543e-7	0.22764
8.69792e-7	0.216598
9.52693e-7	0.206942
1.04355e-6	0.197554
1.14301e-6	0.188596
1.25201e-6	0.180033
1.38101e-6	0.171224
1.52331e-6	0.162837
1.68026e-6	0.154847
1.85339e-6	0.147233
2.03004e-6	0.140526
2.23921e-6	0.133582
2.45275e-6	0.127419

2.68652e-6	0.121524
2.94272e-6	0.11586
3.24593e-6	0.110055
3.58038e-6	0.104503
3.94929e-6	0.0992199
4.41767e-6	0.0934885
4.87286e-6	0.0887104
5.30017e-6	0.0847759
5.76495e-6	0.0809901
6.31441e-6	0.0770377
6.91657e-6	0.0732764
7.5758e-6	0.0696511
8.18281e-6	0.066751
8.83803e-6	0.0638838
9.68086e-6	0.0606497
1.05298e-5	0.0577791
1.13729e-5	0.05524
1.22842e-5	0.0527841
1.3455e-5	0.0499775
1.47382e-5	0.047302
1.61429e-5	0.0447252
1.75584e-5	0.0424416
1.92329e-5	0.040057
2.09195e-5	0.037938
2.25945e-5	0.0360619
2.4234e-5	0.0344089
2.59924e-5	0.0328064
2.8075e-5	0.031094
3.0537e-5	0.0293003
3.29822e-5	0.0277077
3.56249e-5	0.0261781
3.82098e-5	0.0248334
4.15605e-5	0.0232753
4.45761e-5	0.0220185
4.78105e-5	0.0208068
5.12797e-5	0.0196379
5.46152e-5	0.0186193
5.81706e-5	0.0176326
6.15235e-5	0.0167822
6.55254e-5	0.015854
7.02799e-5	0.014863
7.48551e-5	0.0140034
7.97241e-5	0.0131762
8.49141e-5	0.0123777
9.04375e-5	0.0116145
9.56501e-5	0.0109635
0.000101877	0.0102551
0.000107749	0.00964995
0.000114758	0.00900198
0.000121372	0.00844939

0.000127475	0.00798388
0.000133878	0.00753713
0.000140609	0.00710783
0.000146645	0.00675311
0.000154011	0.00635642
0.000160622	0.00602911
0.000167516	0.00571398
0.000175939	0.00536007
0.000184777	0.00502523
0.000194068	0.00470455
0.000203816	0.00440029
0.000214064	0.00410976
0.000224816	0.00383602
0.00023612	0.00357566
0.000247981	0.00332939
0.000258625	0.00313147
0.000265974	0.00300135
0.000279327	0.00278795
0.000291316	0.00261415
0.000303821	0.00244958
0.000316862	0.0022939
0.000330109	0.00215026
0.000342804	0.00202451
0.000355014	0.00191341
0.000367678	0.00180753
0.000380774	0.00170697
0.000393586	0.00161633
0.000407605	0.00152522
0.000419188	0.00145536
0.000431673	0.00138535
0.000447048	0.00130599
0.000462995	0.00123041
0.000482455	0.00114685
0.000498618	0.00108388
0.000516895	0.0010184
0.000536972	0.00095374
0.000558628	0.000890518
0.000579928	0.000834308
0.000603017	0.000779645
0.000630354	0.000721772
0.000655567	0.000674286
0.00068078	0.000631669
0.000710974	0.000586445
0.000736365	0.000552282
0.000762593	0.000520459
0.000787147	0.00049343
0.000815184	0.000465595
0.000837929	0.000444986
0.000861739	0.000425217
0.000892433	0.000402271

0.000917792	0.000385094
0.000943871	0.000369003
0.000970692	0.000353963
0.00100288	0.000337696
0.00104106	0.000320789
0.00107392	0.000308049
0.0011094	0.000295877
0.00114262	0.000286095
0.00118062	0.000276375
0.00121879	0.000268227
0.00126068	0.000260883
0.00130404	0.000255141
0.00134575	0.000251178
0.00139048	0.000248591
0.00143453	0.000247776
0.00143717	0.000247764
0.0014876	0.000249089
0.00153395	0.000252445
0.00157073	0.000256644
0.00161086	0.000262842
0.00164511	0.000269728
0.00168375	0.000279295
0.0017113	0.000287448
0.00173544	0.000295661
0.00175993	0.000305066
0.00178476	0.000315822
0.00180994	0.000328127
0.00183514	0.000342029
0.00185975	0.000357322
0.00188436	0.000374531
0.00190897	0.000393918
0.00193358	0.000415792
0.00195818	0.000440524
0.00198279	0.000468545
0.00200125	0.000492143
0.0020197	0.000517994
0.00203816	0.000546817
0.00205662	0.000578513
0.00207507	0.000614053
0.00209353	0.000653345
0.00211076	0.000694494
0.00212552	0.000733251
0.00214028	0.000776167
0.00215667	0.000828662
0.00217225	0.000884559
0.00218458	0.000933169
0.00219935	0.00099786
0.00220958	0.001047
0.00222208	0.00111194
0.00223286	0.00117388

0.00224364	0.00124126
0.00225653	0.00133041
0.00226646	0.00140626
0.00227639	0.00148888
0.00228301	0.00154848
0.00229364	0.00165222
0.00230191	0.00174052
0.00231018	0.00183643
0.00231845	0.00194079
0.00232672	0.00205458
0.0023344	0.00216973
0.00234453	0.00233762
0.00235192	0.00247261
0.00236092	0.00265567
0.00236721	0.00279522
0.00237378	0.00295211
0.00238199	0.00316882
0.00238924	0.00338141
0.00239621	0.00360713
0.00240352	0.00386956
0.00240874	0.00407427
0.00241432	0.00431219
0.00241953	0.00455457
0.00242682	0.00492935
0.00243196	0.00522122
0.00243709	0.00554035
0.00244176	0.00585927
0.00244644	0.00620446
0.00245111	0.00658142
0.00245576	0.00699221
0.00246041	0.00744268
0.00246497	0.00792703
0.00246947	0.00845454
0.00247397	0.0090359
0.00247803	0.0096132
0.00248209	0.0102494
0.00248616	0.0109511
0.00249022	0.0117302
0.00249428	0.0125923
0.00249809	0.0134917
0.00250178	0.0144501
0.00250547	0.0155225
0.00250916	0.0167193
0.00251286	0.0180604
0.00251532	0.0190491
0.00251778	0.0201213
0.00252024	0.021283
0.0025227	0.0225435
0.00252516	0.0239254
0.00252762	0.0254394

0.00253008	0.0271022
0.00253254	0.028934
0.002535	0.0309587
0.00253722	0.032969
0.00253943	0.0351812
0.00254165	0.0376176
0.00254386	0.0403232
0.00254608	0.0433368
0.00254774	0.0458257
0.0025494	0.0485368
0.00255106	0.0514976
0.00255272	0.0547398
0.00255438	0.0583009
0.00255604	0.0622244
0.0025577	0.066562
0.00255937	0.0713746
0.00256103	0.0767356
0.00256269	0.0827328
0.00256379	0.0871362
0.0025649	0.0919066
0.00256601	0.0970868
0.00256712	0.102726
0.00256822	0.108882
0.00256933	0.115621
0.00257044	0.123022
0.00257173	0.132616
0.00257259	0.139669
0.00257345	0.147317
0.00257431	0.155633
0.00257518	0.164698
0.00257604	0.174605
0.0025769	0.185462
0.00257764	0.19563
0.00257856	0.20963
0.00257948	0.225294
0.0025801	0.2368
0.00258071	0.249271
0.00258133	0.262825
0.00258194	0.277603
0.00258253	0.292924
0.00258308	0.308745
0.00258364	0.326007
0.00258419	0.344908
0.00258474	0.365687
0.0025853	0.388629
0.00258585	0.414081
0.0025864	0.442467
0.00258686	0.468513
0.0025874	0.502948
0.00258776	0.528416

0.00258813	0.556219
0.00258849	0.586702
0.00258885	0.620278
0.00258921	0.657457
0.00258957	0.69886
0.00258984	0.732492
0.0025901	0.769213
0.00259037	0.809488
0.00259064	0.853872
0.0025909	0.90306
0.00259117	0.957911
0.00259143	1.01952
0.00259163	1.07101
0.0025918	1.11758
0.002592	1.17868
0.00259219	1.24685
0.00259239	1.32352
0.00259254	1.38768
0.00259268	1.45862
0.00259283	1.53754
0.00259298	1.62592
0.00259313	1.7256
0.00259328	1.83881
0.0025934	1.94552
0.00259352	2.0655
0.00259364	2.20106
0.00259374	2.31455
0.00259383	2.43961
0.00259392	2.57769
0.00259401	2.73038
0.00259411	2.89953
0.0025942	3.08704
0.00259426	3.22331
0.00259435	3.44636
0.00259444	3.69389
0.00259454	3.96856
0.00259463	4.27309
0.00259472	4.61043
0.00259481	4.98351
0.00259491	5.39543
0.002595	5.8492
0.00259509	6.34798
0.00259518	6.8945
0.00259527	7.49156
0.00259537	8.14153
0.00259546	8.84656
0.00259554	9.51376
0.00259564	10.4048
0.00259574	11.3652
0.00259584	12.3941

0.00259596	13.6418
0.00259609	15.1327
0.00259625	17.1535
0.00259644	19.7522
0.00259689	25.776
0.00259708	28.2828
0.00259723	29.988
0.00259738	31.4864
0.00259753	32.7311
0.00259763	33.3998
0.00259772	33.9279
0.00259783	34.337
0.00259796	34.581
0.002598	34.6004
0.00259813	34.4966
0.00259824	34.181
0.00259836	33.6621
0.00259845	33.0702
0.00259857	32.178
0.00259869	31.115
0.00259881	29.9039
0.00259894	28.4541
0.00259914	25.8936
0.00259962	19.6757
0.0025998	17.4205
0.00259992	16.0015
0.00260002	14.8572
0.00260015	13.5303
0.00260028	12.3113
0.00260036	11.5608
0.00260045	10.8603
0.00260053	10.2097
0.00260062	9.60842
0.00260072	8.91345
0.00260082	8.34601
0.00260092	7.83759
0.00260102	7.38487
0.00260112	6.98464
0.00260121	6.63331
0.00260131	6.32739
0.00260141	6.06336
0.00260151	5.83791
0.00260161	5.64777
0.0026017	5.48997
0.0026018	5.36051
0.0026019	5.26379
0.00260202	5.1717
0.00260214	5.11321
0.00260226	5.08511
0.00260232	5.0816

0.00260244	5.09426
0.00260256	5.13162
0.00260268	5.19228
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0.0282157	1.75789
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18	0.000819767
18.2539	0.000780033
18.5115	0.000739738
18.7726	0.000698874
19	0.0006633
19.2681	0.000631484
19.5399	0.00059922
19.8156	0.0005665
20	0.000544609

//

#-----

#

#name: ENDF/B-VIII.0: Y-89(N,P)SR-89

#X.axis: Incident Energy

#Y.axis: Cross Section

#wdata: 2

#ldata: 41

#data...

#	X	Y
---	---	---

#	MeV	barns
---	-----	-------

2	0
---	---

2.2	2.49412e-7
-----	------------

2.5	2.62102e-6
-----	------------

3	5.68939e-5
---	------------

3.2	0.000133384
-----	-------------

3.5	0.000302558
-----	-------------

3.7	0.000469782
-----	-------------

4	0.000800686
---	-------------

4.5	0.00116502
-----	------------

4.51869	0.00119166
---------	------------

5	0.00187759
---	------------

5.5	0.00224118
-----	------------

6	0.00253917
---	------------

6.5	0.00292248
7	0.00336478
7.5	0.00376778
8	0.0043688
8.5	0.00504938
9	0.0058766
9.5	0.00717048
10	0.00893757
10.5	0.0107702
11	0.0130853
11.5	0.0151243
12	0.017375
12.5	0.0190861
13	0.020558
13.5	0.021812
14	0.0231694
14.5	0.0235925
15	0.0233789
15.5	0.0229104
16	0.0221282
16.5	0.0212609
17	0.0208007
17.5	0.0202689
18	0.0197382
18.5	0.0193314
19	0.0187468
19.5	0.0184279
20	0.0179141

//

#-----

#

#name: ENDF/B-VIII.0: Y-89(N,A)RB-86

#X.axis: Incident Energy

#Y.axis: Cross Section

#wdata: 2

#ldata: 37

#data...

#	X	Y
---	---	---

#	MeV	barns
---	-----	-------

3	0
---	---

3.2	3.21282e-11
-----	-------------

3.5	1.76116e-10
-----	-------------

3.7	5.44549e-10
-----	-------------

4	2.31412e-9
---	------------

4.5	1.76076e-8
-----	------------

5	1.49545e-7
---	------------

5.5	8.88534e-7
-----	------------

6	2.47672e-6
---	------------

6.5	5.85174e-6
-----	------------

7	1.0335e-5
7.5	2.73456e-5
8	4.93029e-5
8.5	0.00010041
9	0.000168498
9.5	0.000298316
10	0.000474177
10.5	0.000729037
11	0.00108311
11.5	0.00135435
12	0.00174972
12.5	0.00243794
13	0.00309915
13.5	0.00390569
14	0.00481827
14.5	0.00584604
15	0.00727034
15.5	0.00845882
16	0.00993002
16.5	0.0114543
17	0.013352
17.5	0.0146683
18	0.0162512
18.5	0.0175078
19	0.0180384
19.5	0.0183051
20	0.0176207

//

#-----
