

NUCLEAR SCIENCE REFERENCES

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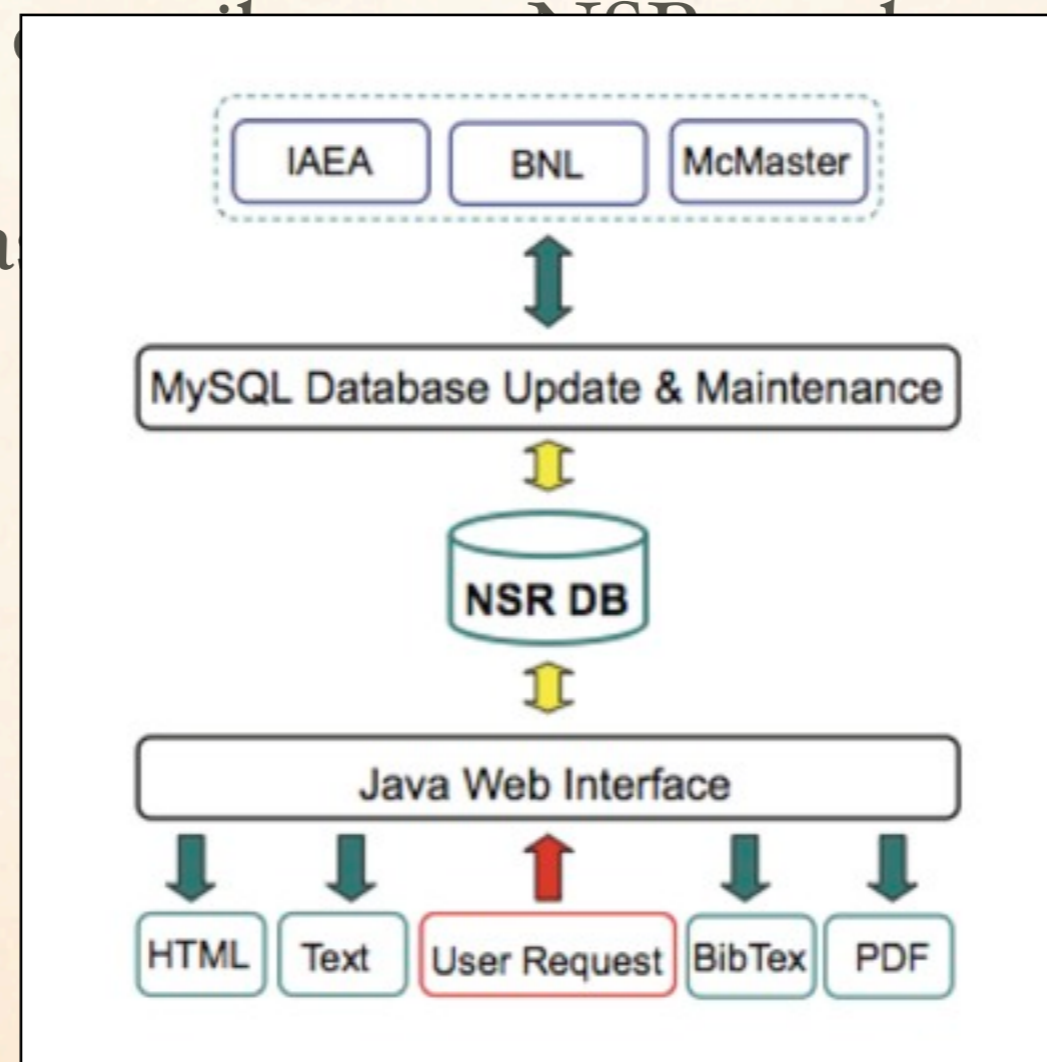
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NSR

- ❖ NSR is a collaborative effort of USNDP and IAEA
- ❖ Three centers contribute to NSR on the regular basis
- ❖ Overall database management is performed by NNDC

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NSR OPERATION IN 2010

- ❖ Total number of NSR entries in FY 2010 is 3,818 compare with 2,714 in FY 2009 (-41% growth)
- ❖ Total number of keyworded articles is 2,331
- ❖ Total number of NSR corrections (quality assurance) is 101
- ❖ Total number of NSR updates in FY 2010 is 66
- ❖ Total number of NSR entries as of 09/30/2010 is 200,786; **We have exceeded 200K!!!**
- ❖ NSR was distributed to Vienna and Berkeley, 4 issues of Recent Refs

STATISTICS

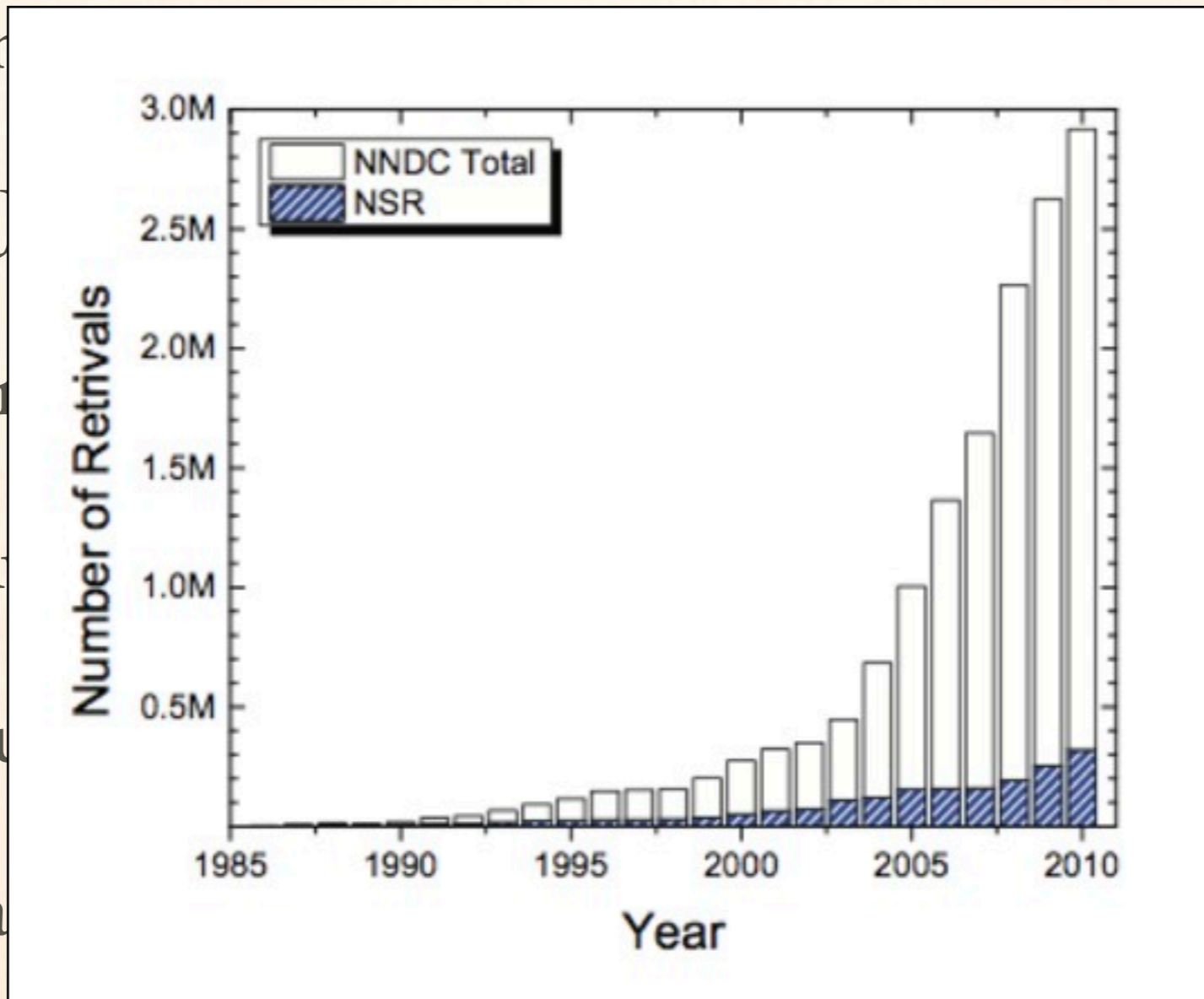
As of January 2011:

- ❖ 201,848 Journal articles, proceedings, reports, ...
- ❖ 473 Journals
- ❖ 86,837 Authors
- ❖ 5,002 Nuclides
- ❖ Web usage statistics growth and wide variety of retrievals

STATISTICS

As of Jan

- ◆ 201,848
- ◆ 473 Jour
- ◆ 86,837 A
- ◆ 5,002 Nu
- ◆ Web usa

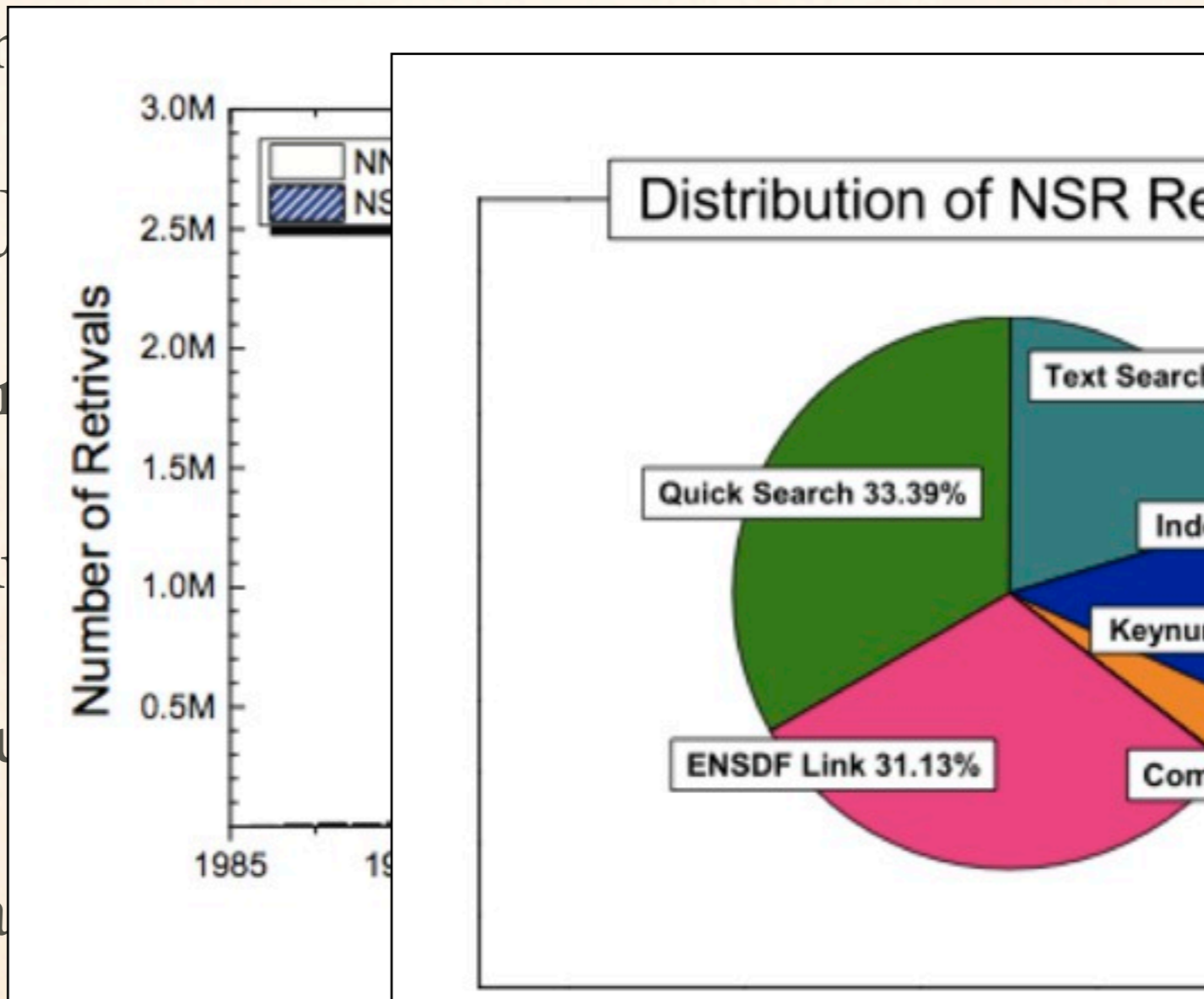


retrievals

STATISTICS

As of Jan

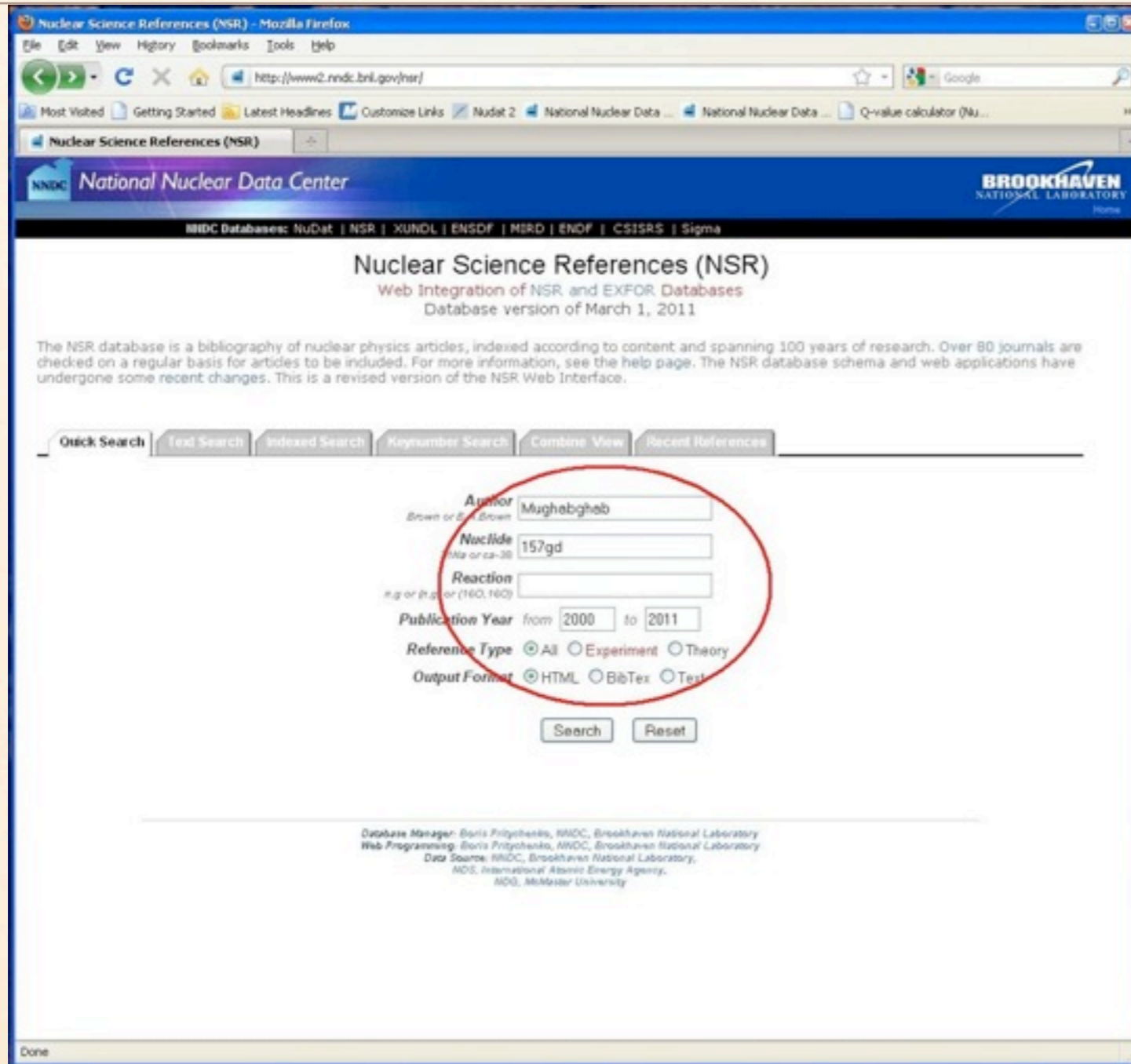
- ◆ 201,848
- ◆ 473 Jour
- ◆ 86,837 A
- ◆ 5,002 Nu
- ◆ Web usa



GOOGLE SCHOLAR

- ❖ NSR provides coverage for a large number of journals (>80), however, **it is not a complete product**
- ❖ To improve the coverage and **ensure that nothing is missing** direct links to Google Scholar are produced for “Quick Search” retrievals
- ❖ This will lead to discovery of additional references and further improvements of NSR

GOOGLE SCHOLAR



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GOOGLE SCHOLAR

The screenshot shows the Nuclear Science References (NSR) website interface. The search query is "Author = Mughabghab and Mujafer 157Gd". The results show one match: "2010PR07 At.Data Nucl.Data Tables 96, 645 (2010)" by B. Pritychenko, S.F. Mughabghab, and A.A. Sonzogni. A red circle highlights the text "Found 1 matches, compare with Google Scholar." The page also displays the NSR database version (March 1, 2011) and a list of nuclear reactions.

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GOOGLE SCHOLAR

The image displays three overlapping browser windows. The leftmost window shows the NNDC website. The middle window shows the NSR Query Results page with the search criteria "Author = Mughabghab and ¹⁵⁷Gd" and a red circle around the "Found 1 matches, compare with Google Scholar." link. The rightmost window shows the Google Scholar search results for "157Gd author:Mughabghab", with a red box highlighting the search input field and filters.

NSR Query Results

Publication year range : 2000 to 2011
Primary and secondary references.

Output year order : Descending
Format : Normal

NSR database version of March 1, 2011.

Search : Author = Mughabghab and ¹⁵⁷Gd

Found 1 matches, compare with Google Scholar.

Back to query form

2010PR07 At>Data Nucl.Data Tables 96, 645 (2010)
B.Pritychenko, S.F.Mughabghab, A.A.Sonzogni

Calculations of Maxwellian-averaged cross sections and astrophysical S-factors for ENDF/B-VI.8 evaluated nuclear reaction data libraries

COMPILATION Z=1-100; A=1-255; compiled, analyzed Maxwellian-averaged cross sections and astrophysical S-factors for ENDF/B-VI.8 evaluated nuclear reaction data libraries

NUCLEAR REACTIONS ^{1,2}H, ³He, ^{6,7}Li, ⁹Be, ^{10,11}B, C, ^{14,15}N, ^{16,17}O, ^{18,19}F, ²⁰Ne, ^{22,23}Na, ²⁴Mg, ^{26,27}Al, ^{28,29}Si, ^{30,31}P, ^{32,33}S, ^{34,35}Cl, ^{36,37}Ar, ^{39,40,41}K, ^{40,42,43,44,46,48}Ca, ⁴⁵Sc, ^{46,47,48,49,50}Ti, ^{51,52}V, ^{54,55}Cr, ^{56,57}Mn, ^{58,59}Fe, ^{60,61}Co, ^{62,63}Ni, ^{64,65}Cu, ^{66,67}Zn, ^{68,69}Ga, ^{70,72,73,74,76}Ge, ^{74,75}As, ^{74,76,77,78,79,80,82}Se, ^{79,80}Br, ^{80,81,82}Kr, ^{82,83,84}Rb, ^{84,85,86}Zr, ^{86,87,88}Nb, ^{88,89,90,91,92,93,94,95,96}Zr, ^{93,94,95}Nb, ^{92,94,95,96,97,98,99,100}Mo, ^{101,102,103,104,105,106,107,108,110}Pd, ^{107,109,110,111}Ag, ^{106,108,110,111,112,113,114,115,116,117,118,119,120,122,123,124,125,126}Cd, ^{121,122,123,124,125,126,127,128,129,130,131,132,133,134,135}In, ^{132,133,134,135,136,137,138,139,140,141,142,143,144,145,146,147,148,149,150}Sn, ^{147,148,149,150,151,152,153,154,155,156,157,158,159,160,161,162,163,164,165,166,167,168,169,170,171,172,173,174,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189,190,191,192,193,194,195,196,197,198,199,200}Pb, ^{201,202,203,204,205,206,207,208,209,210,211,212,213,214,215,216,217,218,219,220,221,222,223,224,225,226,227,228,229,230,231,232,233,234,235,236,237,238,239,240,241,242,243,244,245,246,247,248,249,250}Pb, ^{251,252,253,254,255,256,257,258,259,260,261,262,263,264,265,266,267,268,269,270,271,272,273,274,275,276,277,278,279,280,281,282,283,284,285,286,287,288,289,290,291,292,293,294,295,296,297,298,299,300}Pb, ^{301,302,303,304,305,306,307,308,309,310,311,312,313,314,315,316,317,318,319,320,321,322,323,324,325,326,327,328,329,330,331,332,333,334,335,336,337,338,339,340,341,342,343,344,345,346,347,348,349,350}Pb, ^{351,352,353,354,355,356,357,358,359,360,361,362,363,364,365,366,367,368,369,370,371,372,373,374,375,376,377,378,379,380,381,382,383,384,385,386,387,388,389,390,391,392,393,394,395,396,397,398,399,400}Pb, ^{401,402,403,404,405,406,407,408,409,410,411,412,413,414,415,416,417,418,419,420,421,422,423,424,425,426,427,428,429,430,431,432,433,434,435,436,437,438,439,440,441,442,443,444,445,446,447,448,449,450}Pb, ^{451,452,453,454,455,456,457,458,459,460,461,462,463,464,465,466,467,468,469,470,471,472,473,474,475,476,477,478,479,480,481,482,483,484,485,486,487,488,489,490,491,492,493,494,495,496,497,498,499,500}Pb, ^{501,502,503,504,505,506,507,508,509,510,511,512,513,514,515,516,517,518,519,520,521,522,523,524,525,526,527,528,529,530,531,532,533,534,535,536,537,538,539,540,541,542,543,544,545,546,547,548,549,550}Pb, ^{551,552,553,554,555,556,557,558,559,560,561,562,563,564,565,566,567,568,569,570,571,572,573,574,575,576,577,578,579,580,581,582,583,584,585,586,587,588,589,590,591,592,593,594,595,596,597,598,599,600}Pb, ^{601,602,603,604,605,606,607,608,609,610,611,612,613,614,615,616,617,618,619,620,621,622,623,624,625,626,627,628,629,630,631,632,633,634,635,636,637,638,639,640,641,642,643,644,645,646,647,648,649,650}Pb, ^{651,652,653,654,655,656,657,658,659,660,661,662,663,664,665,666,667,668,669,670,671,672,673,674,675,676,677,678,679,680,681,682,683,684,685,686,687,688,689,690,691,692,693,694,695,696,697,698,699,700}Pb, ^{701,702,703,704,705,706,707,708,709,710,711,712,713,714,715,716,717,718,719,720,721,722,723,724,725,726,727,728,729,730,731,732,733,734,735,736,737,738,739,740,741,742,743,744,745,746,747,748,749,750}Pb, ^{751,752,753,754,755,756,757,758,759,760,761,762,763,764,765,766,767,768,769,770,771,772,773,774,775,776,777,778,779,780,781,782,783,784,785,786,787,788,789,790,791,792,793,794,795,796,797,798,799,800}Pb, ^{801,802,803,804,805,806,807,808,809,810,811,812,813,814,815,816,817,818,819,820,821,822,823,824,825,826,827,828,829,830,831,832,833,834,835,836,837,838,839,840,841,842,843,844,845,846,847,848,849,850}Pb, ^{851,852,853,854,855,856,857,858,859,860,861,862,863,864,865,866,867,868,869,870,871,872,873,874,875,876,877,878,879,880,881,882,883,884,885,886,887,888,889,890,891,892,893,894,895,896,897,898,899,900}Pb, ^{901,902,903,904,905,906,907,908,909,910,911,912,913,914,915,916,917,918,919,920,921,922,923,924,925,926,927,928,929,930,931,932,933,934,935,936,937,938,939,940,941,942,943,944,945,946,947,948,949,950}Pb, 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^{1301,1302,1303,1304,1305,1306,1307,1308,1309,1310,1311,1312,1313,1314,1315,1316,1317,1318,1319,1320,1321,1322,1323,1324,1325,1326,1327,1328,1329,1330,1331,1332,1333,1334,1335,1336,1337,1338,1339,1340,1341,1342,1343,1344,1345,1346,1347,1348,1349,1350}Pb, ^{1351,1352,1353,1354,1355,1356,1357,1358,1359,1360,1361,1362,1363,1364,1365,1366,1367,1368,1369,1370,1371,1372,1373,1374,1375,1376,1377,1378,1379,1380,1381,1382,1383,1384,1385,1386,1387,1388,1389,1390,1391,1392,1393,1394,1395,1396,1397,1398,1399,1400}Pb, ^{1401,1402,1403,1404,1405,1406,1407,1408,1409,1410,1411,1412,1413,1414,1415,1416,1417,1418,1419,1420,1421,1422,1423,1424,1425,1426,1427,1428,1429,1430,1431,1432,1433,1434,1435,1436,1437,1438,1439,1440,1441,1442,1443,1444,1445,1446,1447,1448,1449,1450}Pb, 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^{2051,2052,2053,2054,2055,2056,2057,2058,2059,2060,2061,2062,2063,2064,2065,2066,2067,2068,2069,2070,2071,2072,2073,2074,2075,2076,2077,2078,2079,2080,2081,2082,2083,2084,2085,2086,2087,2088,2089,2090,2091,2092,2093,2094,2095,2096,2097,2098,2099,2100}Pb, ^{2101,2102,2103,2104,2105,2106,2107,2108,2109,2110,2111,2112,2113,2114,2115,2116,2117,2118,2119,2120,2121,2122,2123,2124,2125,2126,2127,2128,2129,2130,2131,2132,2133,2134,2135,2136,2137,2138,2139,2140,2141,2142,2143,2144,2145,2146,2147,2148,2149,2150}Pb, ^{2151,2152,2153,2154,2155,2156,2157,2158,2159,2160,2161,2162,2163,2164,2165,2166,2167,2168,2169,2170,2171,2172,2173,2174,2175,2176,2177,2178,2179,2180,2181,2182,2183,2184,2185,2186,2187,2188,2189,2190,2191,2192,2193,2194,2195,2196,2197,2198,2199,2200}Pb, ^{2201,2202,2203,2204,2205,2206,2207,2208,2209,2210,2211,2212,2213,2214,2215,2216,2217,2218,2219,2220,2221,2222,2223,2224,2225,2226,2227,2228,2229,2230,2231,2232,2233,2234,2235,2236,2237,2238,2239,2240,2241,2242,2243,2244,2245,2246,2247,2248,2249,2250}Pb, ^{2251,2252,2253,2254,2255,2256,2257,2258,2259,2260,2261,2262,2263,2264,2265,2266,2267,2268,2269,2270,2271,2272,2273,2274,2275,2276,2277,2278,2279,2280,2281,2282,2283,2284,2285,2286,2287,2288,2289,2290,2291,2292,2293,2294,2295,2296,2297,2298,2299,2300}Pb, ^{2301,2302,2303,2304,2305,2306,2307,2308,2309,2310,2311,2312,2313,2314,2315,2316,2317,2318,2319,2320,2321,2322,2323,2324,2325,2326,2327,2328,2329,2330,2331,2332,2333,2334,2335,2336,2337,2338,2339,2340,2341,2342,2343,2344,2345,2346,2347,2348,2349,2350}Pb, ^{2351,2352,2353,2354,2355,2356,2357,2358,2359,2360,2361,2362,2363,2364,2365,2366,2367,2368,2369,2370,2371,2372,2373,2374,2375,2376,2377,2378,2379,2380,2381,2382,2383,2384,2385,2386,2387,2388,2389,2390,2391,2392,2393,2394,2395,2396,2397,2398,2399,2400}Pb, ^{2401,2402,2403,2404,2405,2406,2407,2408,2409,2410,2411,2412,2413,2414,2415,2416,2417,2418,2419,2420,2421,2422,2423,2424,2425,2426,2427,2428,2429,2430,2431,2432,2433,2434,2435,2436,2437,2438,}

EXFOR INTEGRATION

- ❖ EXFOR Web integration was performed to engage nuclear reaction community and extend NSR user base

EXFOR INTEGRATION

needed to engage nuclear user base

Nuclear Science References (NSR)
Web Integration of NSR and EXFOR Databases
Database version of December 17, 2010

The NSR database is a bibliography of nuclear physics articles, indexed according to content and spanning 100 years of research. Over 80 journals are checked on a regular basis for articles to be included. For more information, see the [help page](#). The NSR database schema and web applications have undergone some recent changes. This is a revised version of the NSR Web Interface.

Quick Search | Text Search | Indexed Search | Keynumber Search | Combine View | Recent References

Author
Brown or B.A.Brown

Nuclide
³¹Na or ca-38

Reaction
n.g or (n,g) or 16O,16O

Publication Year from to

Reference Type All Experiment Theory

Output Format HTML BibTex Text

Database Manager: Boris Pritychenko, NNDC, Brookhaven National Laboratory
Web Programming: Boris Pritychenko, NNDC, Brookhaven National Laboratory
Data Source: NNDC, Brookhaven National Laboratory,
NDS, International Atomic Energy Agency,
NDG, McMaster University

EXFOR INTEGRATION

NSR Query Results

Publication year range : 1910 to 2011
Primary and secondary references.
Experimental quantity required.

Output year order : Descending
Format : Normal

NSR database version of December 17, 2010.

Search : Nuclide = ^{19}F and Reaction = (N,G)

Found 35 matches.

[Back to query form](#)

2008FIZZ Proc.2007 International Workshop on Compound-Nuclear Reactions and Related Topics, Yosemite Nat.Park, Ca., 22-26 OCT. 2007, J.Escher, F.S.Dietrich, T.Kawano, I.J.Thompson, Eds. p.26 (2008); AIP CONF.PROC. 1005 (2008)

R.B.Firestone, M.Krticka, D.P.McNabb, B.Sleaford, U.Agvaanluvsan, T.Belgya, Zs.Revay

New Methods for the Determination of Total Radiative Thermal Neutron Capture Cross Sections

NUCLEAR REACTIONS ^1H , ^6Li , ^9Be , ^{10}B , ^{12}C , ^{14}N , ^{16}O , ^{19}F , ^{23}Na , ^{24}Mg , ^{25}Mg , ^{27}Al , ^{28}Si , ^{30}Si , ^{31}P , ^{32}S , ^{34}S , ^{35}Cl , ^{39}K , ^{40}K , ^{41}K , ^{102}Pd , ^{104}Pd , ^{105}Pd , ^{106}Pd , ^{108}Pd , ^{110}Pd (n, γ), E=thermal; measured cross sections; ^{10}B (n, α), E=thermal; measured cross sections; ^{25}Mg (n, γ), E=thermal; ^{13}C (n, γ), E=thermal; ^{105}Pd (n, γ), E=thermal; measured E_γ , I_γ ; deduced cross section balance. compared experimental and calculated depopulation.

doi: 10.1063/1.2920738

2007UB01 Phys.Rev. C 75, 035801 (2007)

E.Uberseder, M.Heil, Fr.Kappeler, J.Gorres, M.Wiescher

New measurements of the $^{19}\text{F}(n, \gamma)^{20}\text{F}$ cross section and their implications for the stellar reaction rate

NUCLEAR REACTIONS ^{19}F (n, γ), E=spectrum; measured E_γ , I_γ , Maxwellian averaged σ . Astrophysical implications discussed.

doi: 10.1103/PhysRevC.75.035801

Data from this article have been entered in the EXFOR database. For more information, access [X4 dataset22968](#).

engage nuclear

EXFOR INTEGRATION

National Nuclear Data Center **BROOKHAVEN NATIONAL LABORATORY**

NNDC Databases: NuDat | NSR | XUNOL | ENSDF | MIRDO | ENDF | CSISRS | Sigma

NSR Query Results

Request #4651
Results: Entries: 1 Subentries: 3 DataSets: 3 DataLines: 13

Data Selection

Submit Reset

Data: Selected Unselected All

Output: EXFOR Text EXFOR+ Bibliography TAB C4 PlotC4

Plot: Quick plot Advanced plot [how-to] Convert ratios (if any) to cross sections using [IAEA-standards,2006]

Advanced data modifications

	n	Acc#	1st Author	Year	Reference
<input checked="" type="checkbox"/>	1)	01	22968	2007	E.Uberseder+ J,PR/C,75,035801,2007
<input checked="" type="checkbox"/>	1	22968001	Info	X4 X4+	general information
<input checked="" type="checkbox"/>	2	22968002	4	Info X4 X4+	T4 Pt:1 9-F-19(N,G)9-F-20,,SIG,,MCM
<input checked="" type="checkbox"/>	3	22968002	3	Info X4 X4+	T4 Pt:1 9-F-19(N,G)9-F-20,,SIG,,MCM
<input checked="" type="checkbox"/>	4	22968002	2	Info X4 X4+	T4 Pt:1 9-F-19(N,G)9-F-20,,SIG,,MCM
<input checked="" type="checkbox"/>	5	22968002	5	Info X4 X4+	T4 Pt:1 9-F-19(N,G)9-F-20,,SIG,,MCM
<input checked="" type="checkbox"/>	6	22968002	1	Info X4 X4+	T4 Pt:1 9-F-19(N,G)9-F-20,,SIG,,MCM
<input checked="" type="checkbox"/>	7	22968003		Info X4 X4+	T4 Pt:1 9-F-19(N,G)9-F-20,,SIG,,MCM
<input checked="" type="checkbox"/>	8	22968004		Info X4 X4+	T4 Pt:11 9-F-19(N,G)9-F-20,,SIG,,MCM,DERIV

01 = Show Summary (with code explanation, links to dependent data, etc.)
T4 = Show Tabulated Dataset (for Cross Section only)
R = Reaction-code expansion

Page generated: 2010/12/20,08:53:30 by X4-Servlet on www.nndc.bnl.gov
Project: "Multi-platform EXFOR-CINDA-ENDF", V.Zerkin, IAEA-NDS, 1999-2010
Request from: 130.199.112.67

E=thermal; measured cross sections; $^{24}\text{Mg}(n, \gamma)$, E=thermal; $^{13}\text{C}(n, \gamma)$, E=thermal; $^{100}\text{Pd}(n, \gamma)$, E=thermal; measured E_γ , I_γ ; deduced cross section balance. compared experimental and calculated depopulation.

doi: 10.1063/1.2920738

2007UB01 Phys.Rev. C 75, 035801 (2007)

E.Uberseder, M.Heil, Fr.Kappeler, J.Gorres, M.Wiescher

New measurements of the $^{19}\text{F}(n, \gamma)^{20}\text{F}$ cross section and their implications for the stellar reaction rate

NUCLEAR REACTIONS $^{19}\text{F}(n, \gamma)$, E=spectrum; measured E_γ , I_γ , Maxwellian averaged σ . Astrophysical implications discussed.

doi: 10.1103/PhysRevC.75.035801

Data from this article have been entered in the EXFOR database. For more information, access X4 dataset22968.

EXFOR INTEGRATION

National Nuclear Data Center **BROOKHAVEN NATIONAL LABORATORY**

NNDC Databases: NuDat | NSR | XUNOL | ENSDF | MIRDO | ENDF | CSISRS | Sigma

NSR Query Results

Request #4651
Results: Entries: 1 Subentries: 3 DataSets: 3 DataLines: 13

Data Selection

Submit Reset

Data: EXFOR Request #4651/95

Output: **Output Data**

Format	Data (Size)
EXFOR	Text (14Kb) ZIP (4Kb) Generate: X4±
Bibliography	html (3Kb) BibTeX (1Kb)

Plot: **Advanced**

NSR database

Search: Nuclid

Found 35 matches

Back to query

2008FIZZ Nat.Park, Ca., 1005 (2008)

R.B.Firestone, β_1 = Show S, T4 = Show Ta, R = Reaction

NUCLEAR REAC 32,33,34S, 35,37S

E=thermal; measured cross s
Ey, Iy; deduced cross sectio

doi: 10.1063/1.2920738

2007UB01 Phys.Rev. C 7

E.Uberseder, M.Heil, Fr.Kapp

New measurements of the

NUCLEAR REACTIONS $^{19}\text{F}(n,$
discussed.

doi: 10.1103/PhysRevC.75.0

Data from this article have been

9-F-19(N,G)9-F-20
EXFOR Request: 4651/1, 2010-Dec-20 08:54:44

ENDF Find and add to the plot evaluated data

1) 9-F-19(N,G)9-F-20,,SIG,,MXW

2) 9-F-19(N,G)9-F-20,,SIG,,MXW,DERIV

3) Use my data [example]

See: plotted data (3Kb)

Log: XY X|Y Lin: XY X|Y Auto-range: XY X|Y Page: >> << Zoom: <> << >> Grid: VH 0 V H Pts: Txt Box PL Print

Reset Reprint Legend Authors Info+ PostScript Manual options:[+]

Data for plotting: ZVD (4Kb), send to ZView; download ZView; upload and plot your ZVD file

Note. Zoom and other interactive plotting features were tested under Web-browsers:
MS-Internet Explorer 5.5, Firefox 2.0, Safari, Opera 9.1, Netscape v-7.2

Page generated: 2010/12/20,08:54:45 by X4-Servlet on www.nndc.bnl.gov
Project: "Multi-platform EXFOR-CINDA-ENDF", V.Zerkin, IAEA-ND5, 1999-2010
Request from: 130.199.112.67

XSB, INC.

- ❖ The pilot project with XSB, Inc has been completed
- ❖ It provides tentative keywords and templates for PRC and Nuclear Physics A, this already helps Joann enormously
- ❖ Further improvements have been discussed with XSB, Inc.
- ❖ More in the pipeline ...
- ❖ Additional comments from Balraj and Mark

CURRENT & FUTURE

- ❖ NSR provides a very valuable service to nuclear physics community
- ❖ It is a collaborative product of three nuclear data centers that have own area of responsibilities
- ❖ It employs the latest computer technologies
- ❖ We will try to increase our user base by developing new applications such as BibTex link manager: <http://www.nndc.bnl.gov/nsr/bibtexlink?2001PRO1>, etc.