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Authors: Yu.A.Korovin, A.Yu.Konobeyev, P.E.Pereslavtsev, A.Yu.Stankovsky, C.Broeders, I.Broeders, U.Fischer, U.von Mollendorff
Title: Evaluated Nuclear Data Files for Accelerator Driven Systems and Other Intermediate and High-Energy Applications
Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,X), (n,n'X), (n,pX), (n,αX), (n,γ), (n, ^{3}HeX), ^{51}V, ^{52}Cr, ^{56}Fe, ^{208}Pb(n,2n), ^{232}Th, ^{239}Pu(n,F), ^{27}Al, ^{197}Au(n,pX), (n,nX), (n, ^{3}HeX), ^{50}Cr(n,t), ^{65}Cu (n,pX), ^{181}Ta, ^{197}Au(n,p),E <50 MeV; ^{238}U(n,xn), (n,xnp), (n,xnα),E <100 MeV; compiled,analyzed σ.

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Keyword abstract: NUCLEAR REACTIONS ^{56}Fe, ^{63}Cu, ^{117}Sn(n,γ),E=thermal; measured Eγ,Iγ. ^{57}Fe, ^{64}Cu, ^{118}Sn deduced binding energies.

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Keynumber: 1992KU17
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Authors: Y.Wen, J.Zhang, X.Jin
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Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,γ),E=14.1 MeV; calculated angle integrated σ (Eγ). Exciton model,preequilibrium emission.

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Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,γ),E=thernal; measured γ-line shapes. ^{56}Fe (d,p),E=6 MeV; measured σ(Ep),pγ-coin,DSA centroid shifts; deduced ^{57}Fe atom slowing in Fe target.

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Keynumber: **1987OB01**
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Authors: P.Oblozinsky
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Authors: Liu Zianfeng, Ho Yukun
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Keynumber: 1986PE18
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Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,n), (n,γ),E ≈ 1.15 keV; analyzed 1.15 keV resonance parameter status.

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Authors: Y.Ho, J.Liu
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Authors: P.Z.Hien, T.K.Mai, T.X.Quang, T.N.Thuy
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Keyword abstract: NUCLEAR REACTIONS ^{27}Al, ^{26}Mg, ^{51}V, ^{55}Mn, ^{56}Fe, ^{64}Ni, ^{59}Co, ^{63}Cu, ^{109}Ag, ^{196}, ^{202}Hg(n,γ),E=thermal; measured composite nuclear constant. Activation technique.

Keynumber: 1986CO08
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Authors: F.Corvi, C.Bastian, K.Wisshak

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Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,γ),E=1.152 keV; measured capture Eγ,Iγ. ^{57}Fe deduced resonance,Γ, (gΓnΓγ/Γ).

Keynumber: 1984REZT
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Authors: G.Reffo, F.Fabbri

Title: Role of E1 and M1 Transitions in the γ-Decay following the Neutron Capture in ^{58,60}Ni and ^{56}Fe

Keyword abstract: NUCLEAR STRUCTURE ^{57}Fe, ^{59}, ^{61}Ni; calculated resonances,Γγ,Γn,average E1,M1 Γγ. Axel-Brink model.

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Keynumber: 1984KO02
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Authors: H.Komano, M.Igashira, M.Shimizu, H.Kitazawa

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Authors: K.Wisshak, F.Kappeler, G.Reffo, F.Fabbri

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Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,γ),E=27.7 keV; ^{58}Ni(n,γ),E=15.4 keV; ^{60}Ni (n,γ),E=12.5 keV; measured capture γ-yield. ^{57}Fe, ^{59}, ^{61}Ni deduced s-wave resonance Γγ,E1,M1 contributions to s-,p-,d-wave <Γγ >strength functions.

Keynumber: 1983WIZL
Reference: NEANDC(E)-242U, Vol.V, p.3 (1983)
Authors: K.Wisshak, F.Kappeler, G.Reffo, F.Fabbri

Title: Neutron Capture in s-Wave Resonances of ^{56}Fe, ^{58}Ni, ^{60}Ni

Keyword abstract: NUCLEAR REACTIONS ^{56}Fe, ^{58}, ^{60}Ni(n,γ),E=resonance; measured capture γ-spectra. ^{57}Fe, ^{59}, ^{61}Ni deduced s-wave resonance capture Γγ.

Keynumber: 1983SA30
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Authors: D.G.Sargood

Title: Effect of Excited States on Thermonuclear Reaction Rates

Keyword abstract: NUCLEAR REACTIONS,ICPND ^{20}, ^{21}, ^{22}Ne, ^{23}Na, ^{24}, ^{25}, ^{26}Mg, ^{27}Al, ^{28}, ^{29}, ^{30}Si, ^{31}P, ^{32}, ^{33}, ^{34}, ^{36}S, ^{35}, ^{37}Cl, ^{36}, ^{38}, ^{40}Ar, ^{39}, ^{40}, ^{41}K, ^{40}, ^{42}, ^{43}, ^{44}, ^{46}, ^{48}Ca, ^{45}Sc, ^{46}, ^{47}, ^{48}, ^{49}, ^{50}Ti, ^{50}, ^{51}V, ^{50}, ^{52}, ^{53}, ^{54}Cr, ^{55}Mn, ^{54}, ^{56}, ^{57}, ^{58}Fe, ^{59}Co, ^{58}, ^{60}, ^{61}, ^{62}, ^{64}Ni, ^{63}, ^{65}Cu, ^{64}, ^{66}, ^{67}Zn(n,γ), (n,p), (n,α), (p,γ), (p,n), (p,α), (α,γ), (α,n), (α,p), ^{70}Zn(p,γ), (p,n), (p,α), (α,γ), (α,n), (α,p),E=low; compiled target thermal distribution energy state to ground state thermonuclear reaction rate of reaction σ vs temperature. Statistical model.

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Authors: R.L.Macklin
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Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,γ),E ≈ 1.12-1.24 keV; measured σ(capture) vs E. ^{57}Fe resonance deduced parameters, (gΓnΓγ/Γ).

Keynumber: 1983KAZL
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Authors: F.Kappeler, K.Wisshak, L.D.Hong
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Keyword abstract: NUCLEAR REACTIONS ^{56}, ^{58}Fe(n,γ),E=10-250 keV; measured capture σ. Gold standard.

Keynumber: 1983KA09
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Authors: F.Kappeler, K.Wisshak, L.D.Hong
Title: Neutron Capture Resonances in ^{56}Fe and ^{58}Fe in the Energy Range from 10 to 100 keV
Keyword abstract: NUCLEAR REACTIONS ^{56}, ^{58}Fe(n,γ),E=10-100 keV; calculated capture γ-spectra; deduced capture yield,σ(capture) vs E. ^{57}, ^{59}Fe deduced resonances, (gΓγΓn/Γ),Maxwellian <σ >

Keynumber: 1983COZZ
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Authors: F.Corvi, A.Brusegan, R.Buyl, G.Rohr, R.Shelley, T. van der Veen
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Keyword abstract: NUCLEAR REACTIONS ^{56}Fe,Fe(n,γ),E=thermal,resonance; measured σ(capture). ^{57}Fe deduced <Γγ >for s-,p-,d-waves,absolute γ-transition strength.

Keynumber: 1982RA32
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Authors: S.K.Rathi, V.P.Varshney, H.M.Agrawal
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Keynumber: 1981WIZN
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Authors: K.Wisshak, F.Kappeler, G.Reffo, F.Fabbri

Title: Determination of the Capture Width of s-Wave Resonances in ^{56}Fe, ^{58,60}Ni and ^{27}Al
Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,γ),E=27.7 keV; ^{58}Ni(n,γ),E=15.5 keV; ^{60}Ni (n,γ),E=12.5 keV; ^{27}Al(n,γ),E=34.7 keV; measured Eγ,Iγ. ^{57}Fe, ^{59}, ^{61}Ni, ^{28}Al deduced s-wave resonance Γγ.

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Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,γ),E=21-42 keV; measured capture yield vs E. ^{57}Fe resonances deduced Γγ,absolute γ-transition strength.

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Authors: S.K.Rathi, H.M.Agarwal
Title: P-Wave Neutron Strength Functions
Keyword abstract: NUCLEAR REACTIONS ^{43}Ca, ^{52}Cr, ^{56}Fe, ^{88}Sr, ^{89}Y, ^{90}, ^{92}, ^{94}Zr, ^{93}Nb, ^{92}, ^{94}, ^{95}, ^{96}, ^{97}, ^{98}, ^{100}Mo, ^{138}Ba, ^{139}La, ^{140}Ce, ^{203}Tl(n,γ),E=24 keV; analyzed σ. ^{44}Ca, ^{53}Cr, ^{57}Fe, ^{89}Sr, ^{90}Y, ^{91}, ^{93}, ^{95}Zr, ^{94}Nb, ^{93}, ^{95}, ^{96}, ^{97}, ^{98}, ^{99}, ^{101}Mo, ^{139}Ba, ^{140}La, ^{141}Ce, ^{204}Tl deduced p-wave strength function.

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Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,γ),E=1167 eV; ^{105}Pd(n,γ),E=11.8 eV; ^{127}I (n,γ),E=20.5 eV; ^{143}Nd(n,γ),E=55 eV; ^{175}Lu(n,γ),E=thermal; ^{27}Al, ^{35}Cl, ^{125}Te, ^{181}Ta, ^{182}, ^{183}W, ^{195}Pt, ^{236}U(n,γ),E not given; measured σ; deduced E1,M1 strength function vs mass. ^{57}Fe, ^{106}Pd, ^{128}I, ^{144}Nd, ^{176}Lu resonances deduced Γγ,J,π.

Keynumber: 1981MA36
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Title: Pre-Equilibrium Exciton-Phonon Coupling Model for (n,γ) Reaction
Keyword abstract: NUCLEAR REACTIONS ^{238}U, ^{56}Fe, ^{208}Pb(n,γ),E=5-19 MeV; calculated σ(E). Preequilibrium exciton-phonon coupling model.

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Authors: H.Komano, M.Igashira, S.Katsuta, N.Yamamuro
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Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,γ),E=5-80 keV; measured Eγ,Iγ. ^{57}Fe resonances deduced s-wave Γγ,p-wave absolute γ-transition strength.

Keynumber: 1981KAZM
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Authors: F.Kappeler, L.D.Hong, K.Wisshak

Title: Determination of the Capture Widths of Neutron Resonances in ^{56,58}Fe in the Energy Range from 10 to 100 keV

Keyword abstract: NUCLEAR REACTIONS ^{56}, ^{58}Fe(n,γ),E=10-100 keV; measured σ(E). ^{57}, ^{59}Fe resonances deduced Γγ. Activation technique.

Keynumber: 1980VE05
Reference: Nucl.Phys. A344, 421 (1980)
Authors: R.Vennink, J.Kopecky, P.M.Endt, P.W.M.Glaudemans
Title: Investigation of the ^{56}Fe(n,γ)^{57}Fe and ^{58}Fe(n,γ)^{59}Fe Reactions
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Keynumber: 1980PIZN
Coden: CONF Kiev(Neutron Physics) Proc,Part3,P270,Pisanko
Keyword abstract: NUCLEAR REACTIONS ^{22}, ^{23}Na,Mg, ^{24}, ^{25}, ^{26}Mg, ^{27}Al,Si, ^{28}, ^{29}, ^{30}Si, ^{31}P,S, ^{32}, ^{33}, ^{34}S,Cl, ^{35}, ^{36}, ^{37}Cl,Ar, ^{36}, ^{38}, ^{40}Ar,K, ^{39}, ^{40}, ^{41}K,Ca, ^{40}, ^{42}, ^{43}, ^{44}, ^{46}, ^{48}Ca, ^{45}, ^{46}Sc,Ti, ^{46}, ^{47}, ^{48}, ^{49}, ^{50}Ti,V, ^{50}, ^{51}V,Cr, ^{50}, ^{52}, ^{53}, ^{54}Cr,Fe, ^{54}, ^{56}, ^{57}, ^{58}Fe, ^{59}Co,Ni, ^{58}, ^{59}, ^{60}, ^{61}, ^{62}, ^{64}Ni,Cu, ^{63}, ^{65}Cu,Zn, ^{64}, ^{66}, ^{67}, ^{68}, ^{70}Zn,Ga, ^{69}, ^{71}Ga(n,γ), (n,n), (n,α),E=thermal; evaluated σ,radiative capture resonance integrals.

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Authors: M.A.Islam, T.J.Kennett, S.A.Kerr, W.V.Prestwich
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Keyword abstract: NUCLEAR REACTIONS ^{1}H, ^{9}Be, ^{14}N, ^{24}, ^{25}Mg, ^{27}Al, ^{28}, ^{29}Si, ^{32}S, ^{35}Cl, ^{40}, ^{44}Ca, ^{47}, ^{48}, ^{49}Ti, ^{50}, ^{52}, ^{53}Cr, ^{55}Mn, ^{54}, ^{56}, ^{57}Fe(n,γ),E=thermal; measured Eγ,Iγ. ^{2}H, ^{10}Be, ^{25}, ^{26}Mg, ^{28}Al, ^{29}, ^{30}Si, ^{33}S, ^{36}Cl, ^{41}, ^{45}Ca, ^{48}, ^{49}, ^{50}Ti, ^{51}, ^{53}, ^{54}Cr, ^{56}Mn, ^{55}, ^{57}, ^{58}Fe deduced Q,neutron binding energy.

Keynumber: 1980BAYL
Coden: REPT ZFK-408,P32,Basarragtscha
Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,γ),E=14 MeV; analyzed σ(Eγ); deduced reaction mechanism.

Keynumber: 1980ANYR
Coden: CONF Kiev(Neutron Physics) Proc,Part1,P210,Antalik
Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,γ), (n,n'γ), (n,2nγ),E=14.6 MeV; measured γ-ray multiplicity vs En,σ(Eγ). Statistical theory. Enriched target.

Keynumber: 1980AL19
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Authors: B.J.Allen, D.D.Cohen, F.Z.Company
Title: Radiative Widths of Neutron Scattering Resonances
Keyword abstract: NUCLEAR REACTIONS ^{19}F, ^{24}Mg, ^{27}Al, ^{28}Si, ^{56}Fe, ^{207}Pb(n,γ),E=20-80 keV; measured σ(Eγ,E). ^{20}F, ^{25}Mg, ^{28}Al, ^{29}Si, ^{57}Fe, ^{208}Pb deduced resonances,Γn,L,J,π,Γγ. Moxon-Rae detectors, Monte-Carlo analysis.

Keynumber: 1979WIZK
Reference: Bull.Am.Phys.Soc. 24, No.7, 866, BB6 (1979)
Authors: K.Wisshak, F.Kappeler
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Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,γ),E=resonance; measured S-wave Γγ.

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Keyword abstract: NUCLEAR REACTIONS ^{19}F, ^{56}Fe, ^{59}Co(n,γ),E=16.2-21.8 MeV; measurd production σ for prompt γ; deduced possible (n,2n), (n,np), (n,d) reactions; discussed reaction mechanism.

Keynumber: 1979BRZN
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Authors: A.Brusegan, F.Corvi, G.Rohr, R.Shelley, T.Van der Veen
Title: Neutron Capture Cross Section Measurements of Fe-54 and Fe-56
Keyword abstract: NUCLEAR REACTIONS ^{54}, ^{56}Fe(n,γ),E=0.5-600 keV; measured σ.

Keynumber: 1978VE06
Reference: Nucl.Phys. A299, 429 (1978)
Authors: R.Vennink, W.Ratynski, J.Kopecky
Title: Circular Polarization of Neutron Capture γ-Rays from Ca, Ti, Fe and Ni
Keyword abstract: NUCLEAR REACTIONS ^{42}Ca, ^{44}Ca, ^{46}Ti, ^{56}Fe, ^{58}Fe, ^{64}Ni(polarized n,γ),E=th; measured γ-CP. ^{43}Ca, ^{45}Ca, ^{47}Ti, ^{57}Fe, ^{59}Fe, ^{65}Ni levels deduced J. Enriched targets.

Keynumber: 1978SAYY
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Authors: S.Sakamoto
Title: Measurement of Thermal Neutron Capture Gamma Rays using a Neutron Guide Tube
Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,γ),E=thermal; measured Eγ,Iγ. Curved neutron guide tube.

Keynumber: 1978PEZZ
Coden: CONF Brookhaven(Neutron Capt γ-Ray Spectr),Proc,P714,Peker
Keyword abstract: NUCLEAR REACTIONS ^{35}Cl, ^{56}Fe(n,γ),E=thermal,resonance; analyzed data. ^{36}Cl, ^{57}Fe resonances deduced M1 strengths,doorway characteristics.

Keynumber: 1978PEZI
Coden: CONF BNL(Neutron Capt γ-Ray Spectr),Contrib,No60,Peker
Keyword abstract: NUCLEAR REACTIONS ^{35}Cl, ^{56}Fe(n,γ); analyzed data on M1,E1 transitions. ^{36}Cl, ^{57}Fe levels deduced L,J,π. Evidence for doorway mechanism.

Keynumber: 1978BE04
Reference: Z.Phys. A284, 173 (1978)

Authors: H.Beer, R.R.Spencer, F.Kappeler
Title: Measurement of Partial Radiation Widths of High Energy Transitions from keV Capture Resonances in ^{56}Fe and ^{58}, ^{60}Ni
Keyword abstract: NUCLEAR REACTIONS ^{56}Fe, ^{58}, ^{60}Ni(n,γ),E=7-70 keV; measured σ(Eγ). ^{57}Fe, ^{59}, ^{61}Ni deduced resonances,partial radiation Γ,M1 strength.

Keynumber: 1978ALZK
Coden: CONF Brookhaven(Neutron Capt γ-Ray Spectr),Proc,P535,Allen
Keyword abstract: NUCLEAR REACTIONS ^{40}Ca, ^{45}Sc, ^{54}, ^{56}, ^{57}Fe(n,γ),E=thermal; calculated radiative widths,variances. Statistical,valence,door-way models.

Keynumber: 1978ALYZ
Coden: CONF BNL(Neutron Capt γ-Ray Spectr),Contrib,No5,Allen
Keyword abstract: NUCLEAR REACTIONS ^{40}Ca, ^{45}Sc, ^{54}, ^{56}, ^{57}Fe(n,γ); calculated L=0,1 radiative widths. ^{55}Fe deduced dominance of valence effects. ^{41}Ca, ^{46}Sc, ^{57}, ^{58}Fe deduced evidence for doorway components.

Keynumber: 1977RI14
Reference: Nucl.Instrum.Methods 144, 323 (1977)
Authors: M.Riihonen, J.Keinonen
Title: Measurements of Absolute Resonance Strengths in (p,γ) Reactions on Rare or Gaseous Nuclei
Keyword abstract: NUCLEAR REACTIONS ^{20}, ^{21}, ^{22}Ne, ^{54}, ^{56}, ^{57}, ^{58}Fe(n,γ); measured yields. ^{55}, ^{57}, ^{58}, ^{59}Co deduced resonance strength.

Keynumber: 1976RUZW
Coden: CONF Lowell(Interactions of Neutrons),CONF-760715-P2,Vol2 P1289
Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,γ); measured Eγ,Iγ. ^{57}Fe deduced transitions.

Keynumber: 1976AL16
Reference: Nucl.Instrum.Methods 136, 323 (1976)
Authors: D.E.Alburger
Title: Precision Energy Measurement of γ Rays from ^{15}N, ^{16}O, and ^{57}Fe
Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,γ); measured Eγ; deduced Q. ^{57}Fe deduced transitions.
Keyword abstract: RADIOACTIVITY ^{15}C, ^{16}N; measured Eγ.

Keynumber: 1976AL12
Reference: Nucl.Phys. A269, 408 (1976)
Authors: B.J.Allen, A.R.de L.Musgrove, J.W.Boldeman, M.J.Kenny, R.L.Macklin
Title: Resonance Neutron Capture in ^{56}Fe
Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,γ),E=2.5-870 keV; measured σ(E,Eγ); deduced average σ(E,Eγ). ^{57}Fe deduced resonances,resonance parameters,correlation coefficient,valence component,doorway states. ^{6}Li(n,α) monitor,enriched target.

Keynumber: 1975YOZW
Coden: REPT LA-UR-75-317,mf
Keyword abstract: NUCLEAR REACTIONS ^{14}N, ^{27}Al, ^{56}Fe,Mo, ^{93}Nb, ^{181}Ta,W, ^{238}U

(n,γ),E=thermal,14 MeV; calculated σ.

Keynumber: 1975TA09
Reference: Aust.J.Phys. 28, 21 (1975)
Authors: R.B.Taylor, F.Hille
Title: Angular Correlation Measurements in ^{57}Fe
Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,γ),E=thermal; measured γγ(θ). ^{57}Fe levels deduced J,π.

Keynumber: 1975FRZV
Coden: JOUR BAPSA 20 174 IB21
Keyword abstract: NUCLEAR REACTIONS ^{56}Fe, ^{58}, ^{60}, ^{61}Ni(n,γ); calculated σ.

Keynumber: 1975BEZW
Coden: JOUR BAPSA 20 169 HB27
Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,γ),E=7-70 keV; measured σ(E,Eγ).

Keynumber: 1974LU04
Reference: Nucl.Phys. A230, 83 (1974)
Authors: M.Lubert, N.C.Francis, R.C.Block
Title: Correlations between Reduced Neutron and Radiative Widths in Neutron Resonances
Keyword abstract: NUCLEAR REACTIONS ^{61}Ni, ^{57}Fe, ^{53}Cr(γ,n), ^{60}Ni, ^{56}Fe, ^{52}Cr(n,γ),E=thermal; calculated σ. ^{61}Ni, ^{57}Fe, ^{53}Cr resonances deduced γ-width.

Keynumber: 1974HIZF
Coden: REPT CONF-740218,Paper 71
Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,γ),E=thermal; measured γγ(θ). ^{57}Fe levels deduced γ-mixing.

Keynumber: 1974BRXT
Coden: REPT CONF-740218,Paper 5
Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,γ),E <460 keV; measured σ(E,Eγ).

Keynumber: 1974ALZL
Coden: CONF Petten(Neutron Capture Gamma Ray Spectroscopy),P145
Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,γ),E <1 MeV; measured Eγ,Iγ. ^{57}Fe resonances deduced γ-width,L.

Keynumber: 1974ALYV
Coden: REPT ANU-P-588 P34
Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,γ),E <460 keV; measured σ(E,Eγ).

Keynumber: 1973WH06
Reference: Nucl.Sci.Eng. 51, 496 (1973)
Authors: J.E.White, C.Y.Fu, K.J.Yost
Title: Neutron Capture Gamma-Ray Yields in Iron
Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,γ),E=thermal-1 MeV; calculated σ(E;Eγ),Iγ. ^{57}Fe deduced levels,J,π.

Keynumber: 1973SP06
Reference: Nucl.Phys. A215, 260 (1973)
Authors: A.M.J.Spits, J.A.Akkermans
Title: Investigation of the Reaction ^{37}Cl(n,γ)^{38}Cl
Keyword abstract: NUCLEAR REACTIONS ^{37}Cl, ^{32}S, ^{50}, ^{52}, ^{53}Cr, ^{56}Fe(n,γ),E=thermal; measured Eγ,Iγ; deduced Q. ^{38}Cl deduced levels,γ-branching.
Keyword abstract: RADIOACTIVITY ^{38}Cl; measured Eγ,Iγ. Deduced β- branching, ^{38}Ar deduced transitions. Natural, ^{37}Cl enriched target.

Keynumber: 1973BRXJ
Coden: REPT COO-3058-38 P4
Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,γ); measured Eγ,Iγ.

Keynumber: 1973BO47
Reference: Nucl.Phys. A215, 605 (1973)
Authors: E.Boridy, C.Mahaux
Title: Radiative Capture of Low-Energy Neutrons in the Shell-Model Approach to Nuclear Reactions
Keyword abstract: NUCLEAR REACTIONS ^{56}Fe, ^{58}Ni(n,γ); calculated Iγ. ^{57}Fe, ^{59}Ni resonances calculated level-width.

Keynumber: 1972OP01
Reference: Nucl.Phys. A180, 569 (1972)
Authors: A.M.F.Op den Kamp, A.M.J.Spits
Title: Gamma Rays from Thermal-Neutron Capture in Natural and ^{39}K Enriched Potassium
Keyword abstract: NUCLEAR REACTIONS ^{39}, ^{41}K, ^{1}H, ^{6}Li, ^{12}C, ^{19}F, ^{40}Ar, ^{56}Fe, ^{207}Pb(n,γ),E= thermal; ^{19}F, ^{28}Si(n,n'γ),E=fast; measured Eγ,Iγ. ^{39}K(n,γ),E=thermal; measured Eγ,Iγ,γγ-coin; deduced Q. ^{40}, ^{42}K deduced levels,γ-branching. Ge(Li),NaI detectors.

Keynumber: 1972BHZZ
Coden: CONF Budapest,Contributions,P60,M Bhat,10/11/72
Keyword abstract: NUCLEAR REACTIONS ^{56}Fe, ^{96}Zr, ^{98}Mo, ^{116}, ^{118}, ^{120}, ^{122}, ^{124}Sn (n,γ),E=resonance; measured Iγ(θ). ^{57}Fe, ^{97}Zr, ^{99}Mo, ^{117}, ^{119}, ^{121}, ^{123}, ^{125}Sn resonances, levels deduced J.

Keynumber: 1971WHZV
Coden: REPT ORNL-TM-3442,J E White,10/11/71
Keyword abstract: NUCLEAR REACTIONS Fe, ^{54}, ^{56}Fe(n,γ),E <10 MeV; calculated σ(E;Eγ). ^{55}, ^{57}Fe calculated levels,J,π,γ-branching.

Keynumber: 1971KN02
Reference: Yad.Fiz. 13, 521 (1971); Sov.J.Nucl.Phys. 13, 292 (1971)
Authors: V.A.Knatko, E.A.Rudak
Title: Role of Doorway States of the 'Phonon + Particle' Type in the (n,γ) Reaction
Keyword abstract: NUCLEAR REACTIONS ^{56}Fe, ^{62}Ni, ^{64}, ^{66}Zn, ^{70}, ^{72}Ge(n,γ); calculated particle + doorway state effects. ^{57}Fe, ^{63}Ni, ^{65}, ^{67}Zn, ^{71}, ^{73}Ge calculated n-widths,B(E1).

Keynumber: 1971KN01
Reference: Nucl.Phys. A164, 417 (1971)
Authors: V.A.Knatko, E.A.Rudak
Title: Phonon-Particle Doorway States in (n,γ) Reactions on Nuclei with A <80
Keyword abstract: NUCLEAR REACTIONS ^{56}Fe, ^{62}Ni(n,γ),E=slow; calculated E1 transition probabilities,n-widths. ^{57}Fe, ^{63}Ni, ^{65}Zn, ^{67}Zn, ^{71}, ^{73}Ge calculated levels,wave functions.

Keynumber: 1971EI02
Reference: Z.Phys. 243, 114 (1971)
Authors: E.A.Eissa, J.Honzatko
Title: Study of the ^{57}Fe Low-Energy States
Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,γ),E=thermal; measured Eγ,Iγ. ^{57}Fe deduced levels,γ-branching.

Keynumber: 1971BIZV
Coden: REPT ORNL-TM-3379, J R Bird,9/14/71
Keyword abstract: NUCLEAR REACTIONS F,Na,Mg,Al,S, ^{35}Cl,K,Ca, ^{40}, ^{42}, ^{44}Ca,Ti,V,Fe, ^{54}, ^{56}Fe,Ni, ^{58}, ^{60}Ni, ^{63}Cu,Zn(n,γ),E=10-100 keV; measured Eγ,Iγ. 9 inx 12 in NaI detector.

Keynumber: 1970SP02
Reference: Nucl.Phys. A145, 449 (1970)
Authors: A.M.J.Spits, A.M.F. Op den Kamp, H.Gruppelaar
Title: Gamma Rays from Thermal-Neutron Capture in Natural and ^{28}Si Enriched Silicon
Keyword abstract: NUCLEAR REACTIONS ^{28}, ^{29}, ^{30}Si, ^{6}Li, ^{14}N, ^{19}F, ^{27}Al, ^{54}, ^{56}Fe, ^{207}Pb(n,γ), E=thermal; ^{28}Si(n,n'γ), E=fast; measured Eγ, Iγ; deduced Q. ^{29}, ^{30}, ^{31}Si deduced levels, γ-branching. Natural, ^{28}Si enriched targets, Ge(Li) detector.

Keynumber: 1970CH10
Reference: Phys.Rev. C1, 973 (1970)
Authors: R.E.Chrien, M.R.Bhat, O.A.Wasson
Title: Gamma Rays Following Resonant Neutron Capture in ^{56}Fe
Keyword abstract: NUCLEAR REACTIONS ^{56}Fe(n,γ), E <2 keV; measured σ(Eγ). ^{57}Fe resonance deduced level-width, J, π, γ-multipolarity.

Keynumber: 1970BRZJ
Coden: REPT FEI-205,D Broder,5/29/72
Keyword abstract: NUCLEAR REACTIONS ^{50}, ^{52}, ^{53}Cr, ^{54}, ^{56}Fe(n,γ); measured Eγ,Iγ. ^{51}, ^{53}, ^{54}Cr deduced levels,γ-branching.

Keynumber: 1969KO05
Reference: Nucl.Phys. A127, 385 (1969)
Authors: J.Kopecky, E.Warming
Title: Circular Polarization Measurements with a Ge(Li) Detector
Keyword abstract: NUCLEAR REACTIONS ^{32}S, ^{35}Cl, ^{48}Ti, ^{55}Mn, ^{56}Fe, ^{59}Co, ^{63}Cu(polarized n,γ), E = thermal; measured γ circular polarization. ^{33}S, ^{36}Cl, ^{49}Ti, ^{56}Mn, ^{57}Fe, ^{60}Co, ^{64}Cu levels deduced J, γ-mixing. Natural targets.

Keynumber: 1969KE15
Reference: Yadern.Fiz. 10, 907 (1969); Soviet J.Nucl.Phys. 10, 524 (1970)
Authors: J.Kecskemeti, D.Kiss
Title: Measurement of Average Multiplicity in (n,γ) Reactions Induced by Thermal Neutrons
Keyword abstract: NUCLEAR REACTIONS ^{23}Na, ^{27}Al, ^{31}P, ^{32}S, ^{35}Cl, ^{48}Ti, ^{51}V, ^{53}Cr, ^{52}Cr, ^{55}Mn, ^{56}Fe, ^{59}Co, ^{60}Ni,Ni,Cu, ^{63}Cu, Ge, ^{73}Ge, ^{75}As,Se,Br, Sr, Zr, ^{93}Nb,Mo, ^{103}Rh,Ag(n,γ) E=thermal; measured average γ multiplicity.

Keynumber: 1969HO12
Reference: Phys.Rev. 178, 1746 (1969)
Authors: R.W.Hockenbury, Z.M.Bartolome, J.R.Tatarczuk, W.R.Moyer, R.C.Block
Title: Neutron Radiative Capture in Na, Al, Fe, and Ni from 1 to 200 keV
Keyword abstract: NUCLEAR REACTIONS ^{23}Na, ^{27}Al, ^{54}, ^{56}, ^{57}, ^{58}Fe, ^{58}, ^{60}, ^{61}, ^{62}, ^{64}Ni(n,γ), E=0.1-200 keV; measured σ(E). ^{24}Na, ^{28}Al, ^{55}, ^{57}, ^{58}, ^{59}Fe, ^{59}, ^{61}, ^{62}, ^{63}, ^{65}Ni deduced resonance parameters.

Keynumber: 1969CV02
Reference: Nucl.Phys. A130, 413 (1969)
Authors: F.Cvelbar, A.Hudoklin, M.V.Mihailovic, M.Najzer, M.Petrisic
Title: Radiative Capture of Neutrons in the Region of the Dipole Giant Resonance (II). Calculation
Keyword abstract: NUCLEAR REACTIONS ^{32}S, ^{52}Cr, ^{56}Fe(n,γ), E=14.1 MeV; calculated σ(Eγ).

Keynumber: 1968TS02
Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 32, 1972 (1968); Bull.Acad.Sci.USSR, Phys.Ser. 32, 1816 (1969)
Authors: F.Tsvelbar, A.Khudoklin, M.V.Mikhailovich, M.Naizher, M.Petrishich
Title: Coarse Structure of the Spectra of Gamma Rays Emitted in Radiative Capture of 14.1 MeV Neutrons
Keyword abstract: NUCLEAR REACTIONS ^{51}V, ^{52}Cr, ^{55}Mn, ^{56}Fe(n,γ), E=14 MeV; measured σ (Eγ) ; deduced coarse structure.

Keynumber: 1968SP01
Reference: Nucl.Phys. A113, 395(1968)
Authors: P.Spilling, H.Gruppelaar, H.F.De vries, A.M.J.Spits
Title: The Reactions ^{12}C(n,γ)^{13}C and ^{19}F(n,γ)^{20}F
Keyword abstract: NUCLEAR REACTIONS ^{6}Li, ^{12}C, ^{19}F, ^{56}Fe(n,γ), E=thermal; ^{19}F(n,n'γ), E= fast; ^{19}F(n,α), E= fast; measured Eγ,Iγ; deduced Q. ^{7}Li, ^{13}C, ^{16}O, ^{19}F, ^{20}F deduced levels, branchings. Natural targets.

Keynumber: 1968SC02
Reference: Nucl.Phys. A107, 14 (1968)
Authors: R.Schaub, W.Schuler
Title: Circular Polarization of Neutron-Capture Gamma Rays from ^{65}Zn, ^{68}Zn and ^{57}Fe
Keyword abstract: NUCLEAR REACTIONS ^{64}, ^{67}Zn, ^{56}Fe(polarized n,γ), E=thermal; measured γ circular polarization. ^{65}, ^{68}Zn levels deduced J; ^{57}Fe level deduced Iγ. Natural targets.

Keynumber: 1968BI06
Reference: Nucl.Phys. A120, 113 (1968)

Authors: J.R.Bird
Title: keV Neutron Capture in Iron
Keyword abstract: NUCLEAR REACTIONS ^{54}Fe, ^{56}Fe(n,γ) E=15-80 keV, measured σ(E; Eγ). ^{55}Fe, ^{57}Fe deduced levels, resonances. Natural, enriched targets.

Keynumber: 1967SP05
Reference: Nucl.Phys. A102, 209 (1967)
Authors: P.Spilling, H.Gruppelaar, A.M.F.Op Den Kamp
Title: Thermal-Neutron Capture Gamma Rays from Natural Magnesium and Enriched ^{25}Mg
Keyword abstract: NUCLEAR REACTIONS ^{24}, ^{25}, ^{26}Mg, ^{56}Fe, ^{63}Cu, ^{207}Pb(n,γ), E=thermal; measured σ(Eγ); deduced Q. ^{25}, ^{26}, ^{27}Mg deduced levels, branching. Enriched ^{25}Mg target, Ge(Li) detector.

Keynumber: 1967RA24
Reference: Proc.Intern.Conf.Atomic Masses, 3rd, Winnipeg, Canada, R.C.Barber, Ed., Univ.Manitoba Press, p.278(1967)
Authors: N.C.Rasmussen, V.J.Orphan, Y.Hukai
Title: Determination of (n,γ) Reaction Q Values from Capture γ-Ray Spectra
Keyword abstract: NUCLEAR REACTIONS ^{6}Li, ^{7}Li, ^{9}Be, ^{10}B, ^{12}C, ^{14}N, ^{19}F, ^{23}Na, ^{24}Mg, ^{25}Mg, ^{26}Mg, ^{27}Al, ^{28}Si, ^{31}P, ^{32}S, ^{35}Cl, ^{40}Ca, ^{45}Sc, ^{48}Ti, ^{51}V, ^{55}Mn, ^{54}Fe, ^{56}Fe, ^{59}Co, ^{58}Ni, ^{60}Ni, ^{63}Cu, ^{65}Cu, ^{66}Zn, ^{67}Zn, ^{73}Ge, ^{76}Se, ^{85}Rb, ^{87}Rb, ^{89}Y, ^{93}Nb, ^{103}Rh, ^{113}Cd, ^{123}Te, ^{133}Cs, ^{139}La, ^{141}Pr, ^{149}Sm, ^{153}Eu, ^{157}Gd, ^{159}Tb, ^{165}Ho, ^{167}Er, ^{169}Tm, ^{181}Ta, ^{182}W, ^{195}Pt, ^{197}Au, ^{199}Hg, ^{203}Tl, ^{207}Pb(n,γ), E = thermal; measured Eγ; deduced Q. Natural targets.

Keynumber: 1965FI04
Reference: Nucl.Phys. 73, 312 (1965)
Authors: E.I.Firsov, N.G.Loskutova, E.A.Rudak
Title: Spectrum of γ-Rays from the ^{54}Fe(n,γ)^{55}Fe Reaction
Keyword abstract: NUCLEAR REACTIONS ^{54}Fe, ^{56}Fe(n,γ), E = thermal; measured σ(Eγ). ^{55}Fe deduced levels. Enriched ^{54}Fe target.

Keynumber: 1964GR36
Reference: Nucl.Phys. 58, 465(1964)
Authors: L.V.Groshev, A.M.Demidov, G.A.Kotelnikov, V.N.Lutsenko
Title: Spectrum of γ-Rays from the Fe^{56}(n,γ)Fe^{57} Reaction
Keyword abstract: NUCLEAR REACTIONS ^{54}, ^{56}, ^{57}Fe(n,γ),E=thermal; measured Eγ, Iγ, Q. ^{57}Fe deduced levels, J, π. Natural target.
