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66 reference(s) found :

Keynumber: 2001DE25

Reference: J.Radioanal.Nucl.Chem. 248, 103 (2001)

Authors: F.De Corte, S.Van Lierde

Title: Evaluation of (n, γ) Cross Sections from k_0 -Factors for Radionuclides with a Short Half-Life and/or a Complex Activation-Decay Scheme

Keyword abstract: NUCLEAR REACTIONS ^{19}F , ^{40}Ar , ^{59}Co , ^{70}Zn , ^{76}Se , ^{79}Br , ^{103}Rh , ^{108}Pd , ^{109}Ag , 121 , ^{123}Sb , ^{133}Cs , ^{178}Hf , ^{198}Pt , ^{204}Hg (n, γ),E=thermal; measured activation σ . Comparisons with previous results.

Keynumber: 2000OHZZ

Reference: BNL-NCS-67469 (2000)

Authors: S.-Y.Oh, J.Chang, S.Mughabghab

Title: Neutron Cross Section Evaluations of Fission Products Below the Fast Energy Region

Keyword abstract: NUCLEAR REACTIONS ^{95}Mo , ^{99}Tc , ^{101}Ru , ^{103}Rh , ^{105}Pd , ^{109}Ag , ^{131}Xe , ^{133}Cs , ^{141}Pr , 143 , ^{145}Nd , 147 , 149 , 150 , 151 , ^{152}Sm , ^{153}Eu , 155 , ^{157}Gd (n, γ),E <250 keV; compiled,analyzed capture σ ,resonance parameters,related features. Comparison with data,previous evaluations.

Keynumber: 1999VA07

Reference: Nucl.Instrum.Methods Phys.Res. A422, 874 (1999)

Authors: S.Van Lierde, F.De Corte, D.Bossus, R.van Sluijs, S.Pomme

Title: Determination of k_0 and Related Nuclear Data for Short-Lived Radionuclides to be used in KAYZERO-NAA at DSM Research

Keyword abstract: NUCLEAR REACTIONS ^{19}F , ^{70}Zn , ^{76}Se , ^{79}Br , ^{103}Rh , ^{108}Pd , ^{109}Ag , ^{123}Sb , ^{178}Hf , ^{204}Hg (n, γ),E=reactor; measured $E\gamma$, $I\gamma$; deduced k_0 for neutron activation analysis.

Keynumber: [1999SM16](#)

Reference: Phys.Rev. C60, 045503 (1999)

Authors: D.A.Smith, J.D.Bowman, B.E.Crawford, C.A.Grossmann, T.Haseyama, A.Masaïke, Y.Matsuda, G.E.Mitchell, S.I.Penttila, N.R.Roberson, S.J.Seestrom, E.I.Sharapov, S.L.Stephenson, V.Yuan

Title: Parity Violation in Neutron Resonances of ^{103}Rh

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh (n, γ),E=30-490 eV; analyzed data; deduced resonance parameters,parity nonconservation.

Keynumber: [1999SM15](#)

Reference: Phys.Rev. C60, 045502 (1999)

Authors: D.A.Smith, J.D.Bowman, B.E.Crawford, C.A.Grossmann, T.Haseyama, A.Masaïke, Y.Matsuda, G.E.Mitchell, S.I.Penttila, N.R.Roberson, S.J.Seestrom, E.I.Sharapov, S.L.Stephenson, V.Yuan

Title: Neutron Resonance Spectroscopy of ^{103}Rh from 30 eV to 2 keV

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh (n, γ),E=30-2000 eV; measured σ (En); deduced resonance parameters. Tof technique.

Keynumber: 1999HO33

Reference: Pure Appl.Chem. 71, 2309 (1999)

Authors: N.E.Holden

Title: Temperature Dependence of the Westcott g-Factor for Neutron Reactions in Activation Analysis (Technical Report)

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh , ^{113}Cd , ^{115}In , ^{135}Xe , ^{148}Pm , 149 , ^{151}Sm , 151 , 152 , 153 , 154 , ^{155}Eu , 155 , ^{157}Gd , ^{164}Dy , 175 , ^{176}Lu , ^{177}Hf , ^{182}Ta , 185 , ^{187}Re , ^{197}Au , 231 , ^{233}Pa , 235 , ^{238}U (n, γ),E=low; calculated Westcott g-factors vs temperature.

Keynumber: 1999DE36

Reference: Appl.Radiat.Isot. 51, 701 (1999)

Authors: F.De Corte, S.Van Lierde, A.Simonits, D.Bossus, R.van Sluijs, S.Pomme

Title: A Re-Evaluation of k_0 and Related Nuclear Data for the 555.8 keV Gamma-Line Emitted by $^{104\text{m}}\text{Rh}$ - ^{104}Rh Mother-Daughter Pair for use in NAA

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh (n, γ),E=reactor; measured E_γ , I_γ ; deduced isomer fractional decay factor,other parameters for neutron activation analysis.

Keynumber: 1998GR02

Reference: Yad.Fiz. 61, No 1, 29 (1998); Phys.Atomic Nuclei 61, 24 (1998)

Authors: O.T.Grudzevich

Title: Isomeric Ratios for Radiative Neutron Capture

Keyword abstract: NUCLEAR REACTIONS ^{59}Co , ^{80}Se , ^{89}Y , ^{79}Br , ^{85}Rb , ^{103}Rh , ^{151}Eu , ^{115}In , ^{187}Re (n, γ),E=0-14 MeV; analyzed isomer production ratios. Cascade-evaporation model analysis.

Keynumber: 1995SU29

Reference: Bull.Rus.Acad.Sci.Phys. 59, 801 (1995)

Authors: P.A.Sushkov, I.A.Kondurov, Yu.E.Loginov, E.P.Grigoriev, T.D.MacMahon, K.H.Fadel

Title: Intense Lines of Conversion Electrons (E0 Transitions) in Reaction ^{103}Rh (n, γ_e) ^{104}Rh

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh (n, γ),E=reactor; measured electron spectrum. ^{104}Rh deduced E0 transitions evidence.

Keynumber: 1995SU28

Reference: Bull.Rus.Acad.Sci.Phys. 59, 796 (1995)

Authors: P.A.Sushkov, T.M.Tyukavina

Title: Precise Measurement of Auger Electron Spectrum in the Reaction ^{103}Rh (n, γ_e) ^{104}Rh

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh (n, γ),E=reactor; measured Auger electron energies,intensities. High precision magnetic spectrometer.

Keynumber: 1994SUZZ

Reference: Program and Thesis, Proc.44th Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Kharkov, p.50 (1994)

Authors: P.A.Sushkov, I.A.Kondurov, Yu.E.Loginov, E.P.Grigorev, T.D.MacMahon, Kh.Fadel

Title: Intense Lines in Spectrum of Conversion Electrons (E0 Transitions) from ^{103}Rh (n, γ_e) ^{104}Rh Reaction

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh (n, γ),E=thermal; measured $E(\text{ce})$, $I(\text{ce})$. ^{104}Rh deduced transitions, γ -multipolarity. BILL,GAMS spectrometers.

Keynumber: 1994SUZX

Reference: Program and Thesis, Proc.44th Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Kharkov, p.401

(1994)

Authors: P.A.Sushkov, T.M.Tyukavina

Title: Precise Measurements of Auger Electrons in $^{103}\text{Rh}(n,\gamma)^{104}\text{Rh}$ Reaction

Keyword abstract: NUCLEAR REACTIONS $^{103}\text{Rh}(n,\gamma)$, E=thermal; measured E(Auger), I(Auger). Precise measurements.

Keynumber: 1992BE54

Reference: At.Energ. 72, 95 (1992); Sov.At.Energy 72, 91 (1992)

Authors: S.M.Bednyakov, G.N.Manturov

Title: Refining Fission-Product Capture Cross Sections in Reactivity-Perturbation Experiments

Keyword abstract: NUCLEAR REACTIONS $^{95, 97, 98, 100}\text{Mo}$, ^{103}Rh , ^{109}Ag , ^{141}Pr , $^{143, 145}\text{Nd}$, ^{149}Sm , $^{153}\text{Eu}(n,\gamma)$, E=reactor; analyzed fission product neutron capture σ data. Reactivity-perturbation experiments.

Keynumber: 1991HI23

Reference: J.Radioanal.Nucl.Chem. 153, 169 (1991)

Authors: P.Z.Hien, T.K.Mai, T.X.Quang, N.V.Loc, T.N.Thuy

Title: Determination of k_0 -Factors of Short-Lived Nuclides ($T \geq 1$ Min) by Thermal Neutron Activation Technique

Keyword abstract: NUCLEAR REACTIONS ^{19}F , ^{37}Cl , ^{45}Sc , ^{76}Se , ^{103}Rh , ^{106}Pd , ^{109}Ag , ^{138}Ce , ^{164}Dy , ^{166}Er , $^{178}\text{Hf}(n,\gamma)$, E=thermal; measured γ -spectra. ^{20}F , $^{38\text{m}}\text{Cl}$, $^{46\text{m}}\text{Sc}$, $^{77\text{m}}\text{Se}$, ^{104}Rh , ^{107}Pd , ^{110}Ag , $^{139\text{m}}\text{Ce}$, $^{165\text{m}}\text{Dy}$, $^{167\text{m}}\text{Er}$, $^{179\text{m}}\text{Hf}$ deduced k_0 -Au factors.

Keynumber: [1990WI14](#)

Reference: Phys.Rev. C42, 1731 (1990)

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

Title: Measurements of keV Neutron Capture Cross Sections with a 4π Barium Fluoride Detector: Examples of ^{93}Nb , ^{103}Rh , and ^{181}Ta

Keyword abstract: NUCLEAR REACTIONS ^{93}Nb , ^{103}Rh , $^{181}\text{Ta}(n,\gamma)$, E=3-200 keV; measured capture σ relative to gold standard; deduced Maxwellian averaged σ at (kT)=10-50 keV.

Keynumber: 1989PE04

Reference: Nucl.Instrum.Methods Phys.Res. B40/41, 1205 (1989)

Authors: R.Pepelnik

Title: Sensitivities of High-Flux 14 MeV Neutron Activation Analysis

Keyword abstract: NUCLEAR REACTIONS ^{11}B , ^{16}O , ^{19}F , ^{20}Ne , ^{23}Na , ^{24}Mg , ^{27}Al , ^{28}Si , ^{34}S , ^{44}Ca , ^{51}V , ^{60}Ni , ^{75}As , $^{109}\text{Ag}(n,p)$, ^{31}P , ^{40}Ar , ^{55}Mn , ^{65}Cu , $^{93}\text{Nb}(n,\alpha)$, ^{35}Cl , ^{45}Sc , ^{64}Zn , ^{71}Ga , ^{76}Ge , ^{80}Se , ^{79}Br , ^{86}Kr , ^{85}Rb , ^{90}Zr , ^{100}Mo , ^{96}Ru , ^{110}Pd , ^{124}Sn , ^{123}Sb , ^{130}Te , ^{136}Xe , ^{133}Cs , ^{138}Ba , ^{140}Ce , ^{141}Pr , ^{142}Nd , ^{144}Sm , ^{160}Gd , ^{159}Tb , ^{165}Ho , ^{164}Er , ^{169}Tm , ^{168}Yb , ^{181}Ta , ^{186}W , ^{198}Pt , ^{191}Ir , ^{197}Au , ^{203}Tl , $^{208}\text{Pb}(n,2n)$, Ti, Cr, Fe, Sr, Cd, Eu, Hf, $^{200}\text{Hg}(n,X)$, ^{59}Co , ^{103}Rh , ^{115}In , ^{127}I , ^{164}Dy , ^{175}Lu , ^{187}Re , $^{226}\text{Ra}(n,\gamma)$, ^{232}Th , $^{238}\text{U}(n,F)$, E=14 MeV; calculated analytical sensitivities. Activation analysis.

Keynumber: 1989BE46

Reference: At.Energ. 67, 199 (1989); Sov.At.Energy 67, 675 (1989)

Authors: S.M.Bednyakov, M.V.Bokhovko, G.N.Manturov, K.Dietze

Title: Refining the Capture Cross Sections of ^{103}Rh , ^{105}Pd , ^{109}Ag , and ^{153}Eu

Keyword abstract: NUCLEAR REACTIONS $^{103}\text{Rh}(n,\gamma), E \leq 1 \text{ MeV}$; measured capture σ . ^{105}Pd , ^{109}Ag , $^{153}\text{Eu}(n,\gamma), E \leq 1 \text{ MeV}$; analyzed σ data; deduced corrected σ errors. High isotopic purity targets.

Keynumber: 1988SUZS

Reference: Proc.7th Seminar on Precise Measurements in Nucl.Spectrosc., Vilnius, p.9 (1988)

Authors: P.A.Sushkov, T.D.Mac Mahon

Title: Precision Determination of Energies and Intensities of Transitions from Internal Conversion Electron Spectra

Keyword abstract: NUCLEAR REACTIONS $^{103}\text{Rh}(n,\gamma), E=\text{thermal}$; measured $I(\text{ce}), \text{Auger}$ spectra. ^{104}Rh transitions deduced precise $E\gamma, I\gamma$. Magnetic β -spectrometer.

Keynumber: 1988KOZQ

Reference: Program and Theses, Proc.38th Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Baku, p.80 (1988)

Authors: I.A.Kondurov, Yu.E.Loginov, T.D.Mac Mahon, A.Osuma, P.A.Sushkov

Title: Investigation of Internal Conversion Electrons from $^{103}\text{Rh}(n,\gamma\text{e})$ Reaction

Keyword abstract: NUCLEAR REACTIONS $^{103}\text{Rh}(n,\gamma), E=\text{thermal}$; measured $E\gamma, I(\text{ce})$. ^{104}Rh deduced levels, J, π, γ -multipolarity. Magnetic β -spectrometer.

Keynumber: 1988KO31

Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 52, 864 (1988); Bull.Acad.Sci.USSR, Phys.Ser. 52, No.5, 28 (1988)

Authors: I.A.Kondurov, Yu.E.Loginov, V.V.Martynov, P.A.Sushkov

Title: ^{104}Rh and ^{110}Ag Excited-State Lifetimes

Keyword abstract: NUCLEAR REACTIONS $^{103}\text{Rh}, ^{109}\text{Ag}(n,\gamma), E=\text{thermal}$; measured $\gamma\gamma$ -coin. ^{104}Rh , ^{110}Ag level deduced $T_{1/2}$.

Keynumber: 1987KOZO

Reference: Program and Theses, Proc.37th Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Yurmala, p.76 (1987)

Authors: I.A.Kondurov, Yu.E.Loginov, P.A.Sushkov, G.A.Bader, D.Breitag, B.R.K.Maier, O.V.B.Schult, M.Bogdanovich, S.Koichki, J.Simic

Title: Investigation of Radiations from the $^{103}\text{Rh}(n,\gamma)^{104}\text{Rh}$ Reaction and the Level Scheme of ^{104}Rh

Keyword abstract: NUCLEAR REACTIONS $^{103}\text{Rh}(n,\gamma), E=\text{thermal}$; measured $E\gamma, I\gamma, \gamma\gamma$ -coin. ^{104}Rh deduced levels, J, π . Bent crystal spectrometer.

Keynumber: 1986SA14

Reference: Ann.Nucl.Energy 13, 287 (1986)

Authors: H.S.Sahota, V.K.Mittal, N.P.S.Sidhu

Title: Neutron Capture Cross-Sections by Comparative γ -Activation

Keyword abstract: NUCLEAR REACTIONS $^{103}\text{Rh}, ^{115}\text{In}, ^{160}\text{Gd}, ^{154}\text{Sm}, ^{51}\text{V}(n,\gamma), E=1.07-2.85 \text{ MeV}$; analyzed capture σ data; deduced revised values.

Keynumber: 1986KOZT

Reference: Program and Theses, Proc.36th Ann.Conf.Nucl.Spectrosc.Struct.At.Nuclei, Kharkov, p.82 (1986)

Authors: I.A.Kondurov, Yu.E.Loginov, V.V.Martynov

Title: Lifetimes of Excited States of ^{104}Rh and ^{116}In

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh , $^{115}\text{In}(n,\gamma)$, E=thermal; measured $\gamma\gamma(t)$. ^{104}Rh , ^{116}In levels deduced $T_{1/2}$.

Keynumber: 1984AN19

Reference: Ann.Nucl.Energy 11, 607 (1984)

Authors: M.A.Ansari, R.K.Y.Singh, M.L.Sehgal, V.K.Mittal, D.K.Avasthi, I.M.Govil

Title: Isomeric Cross-Sections of In and Rh at Neutron Energies of a Few MeV

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh , $^{115}\text{In}(n,\gamma)$, E=1.07-2.85 MeV; measured capture σ leading to residual isomer production.

Keynumber: 1982RE04

Reference: Nucl.Sci.Eng. 80, 630 (1982)

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

Title: Fast Neutron Capture Cross Sections and Related Gamma-Ray Spectra of Niobium-93, Rhodium-103, and Tantalum-181

Keyword abstract: NUCLEAR REACTIONS ^{93}Nb , ^{103}Rh , $^{181}\text{Ta}(n,\gamma)$, E=10-70 keV; measured σ (capture). Moxon-Rae detectors, ^{197}Au standard. Hauser-Feshbach calculations.

Keynumber: 1981REZY

Reference: NEANDC(E)-222U, Vol.V, p.7 (1981)

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

Title: Fast Neutron Capture Cross Sections and Related Gamma Ray Spectra of ^{93}Nb , ^{103}Rh , and ^{181}Ta

Keyword abstract: NUCLEAR REACTIONS ^{93}Nb , ^{103}Rh , $^{181}\text{Ta}(n,\gamma)$, E=10-70 keV; measured σ (capture). Activation technique, ^{197}Au standard.

Keynumber: 1981KE03

Reference: Z.Phys. A299, 323 (1981)

Authors: T.J.Kennett, W.V.Prestwich, M.A.Islam

Title: The Level Structure of ^{104}Rh Deduced from the $^{103}\text{Rh}(n,\gamma)^{104}\text{Rh}$ Reaction

Keyword abstract: NUCLEAR REACTIONS $^{103}\text{Rh}(n,\gamma)$, E=3700-7000 keV; measured $E\gamma, I\gamma$. ^{104}Rh deduced levels, $S(n), \langle \Gamma \gamma \rangle$

Keynumber: 1981AR22

Reference: Yad.Fiz. 34, 1028 (1981)

Authors: L.Ya.Arifov, B.S.Mazitov, V.G.Ulanov

Title: Relative Probability of Isomer Population in Radiative Capture

Keyword abstract: NUCLEAR REACTIONS ^{45}Sc , ^{59}Co , 68 , ^{70}Zn , 74 , ^{76}Ge , 80 , ^{82}Se , ^{84}Kr , ^{85}Rb , ^{84}Sr , ^{89}Y , ^{103}Rh , 108 , ^{110}Pd , ^{109}Ag , ^{114}Cd , 113 , ^{115}In , 112 , 120 , 122 , ^{124}Sn , ^{121}Sb , 120 , 126 , 128 , ^{130}Te , ^{133}Cs , ^{132}Ba , 136 , ^{138}Ce , ^{151}Eu , ^{164}Dy , ^{181}Ta , ^{184}W , ^{187}Re , ^{190}Os , ^{191}Ir , ^{196}Pt , ^{196}Hg (n, γ), E=thermal, 0.2-2.8 MeV; $^{92}\text{Mo}(p,\gamma)$, E=1.8-7.4 MeV; analyzed $\sigma(\text{capture})$ isomer ratio vs E. Statistical theory.

Keynumber: 1980MA08

Reference: Nucl.Sci.Eng. 73, 174 (1980)

Authors: R.L.Macklin, J.Halperin

Title: 100 , 101 , 102 , $^{104}\text{Ru}(n,\gamma)$ and $^{103}\text{Rh}(n,\gamma)$ Cross Sections Above 2.6 keV

Keyword abstract: NUCLEAR REACTIONS $^{100, 101, 102, 104}\text{Ru}$, $^{103}\text{Rh}(n,\gamma)$, $E=2-700$ keV; measured σ . $^{101, 102, 103, 105}\text{Ru}$, ^{104}Rh deduced resonances, strength functions, $\Gamma\gamma$. Breit-Wigner analysis.

Keynumber: 1980BOZL

Coden: CONF Leningrad,P73,Bogdanovich

Keyword abstract: NUCLEAR REACTIONS $^{103}\text{Rh}(n,\gamma)$, $E=\text{thermal}$; measured $E\gamma, \gamma\gamma(t)$. ^{104}Rh deduced levels. Ge(Li), NaI(Tl) detectors.

Keynumber: 1979JO10

Reference: Phys.Rev. C20, 2072 (1979)

Authors: S.Joly, D.M.Drake, L.Nilsson

Title: Gamma-Ray Strength Functions for ^{104}Rh , ^{170}Tm , and ^{198}Au

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh , ^{169}Tm , $^{197}\text{Au}(n,\gamma)$, $E=0.5-3.0$ MeV; measured σ ($E, E\gamma$). ^{104}Rh , ^{170}Tm , ^{198}Au deduced γ -ray strength functions, $\Gamma\gamma$.

Keynumber: 1977II01

Reference: J.Nucl.Sci.Technol. 14, 161 (1977)

Authors: S.Iijima, T.Nakagawa, Y.Kikuchi, M.Kawai, H.Matsunobu, K.Maki, S.Igarasi

Title: Evaluation of Neutron Cross Section of 27 Fission Product Nuclides Important for Fast Reactor

Keyword abstract: NUCLEAR REACTIONS ^{93}Zr , $^{95, 97}\text{Mo}$, ^{99}Tc , $^{101, 102, 104, 106}\text{Ru}$, ^{103}Rh , $^{105, 107}\text{Pd}$, ^{109}Ag , ^{129}I , ^{131}Xe , $^{133, 135, 137}\text{Cs}$, $^{143, 144, 145}\text{Nd}$, ^{144}Ce , ^{147}Pm , $^{147, 149, 151}\text{Sm}$, $^{153, 155}\text{Eu}$ (n,n), (n,γ), (n,n'), (n,X), $E=\text{th-15}$ MeV; calculated σ .

Keynumber: 1975THZM

Coden: REPT UKNDC(75)P71,P9,Thomas

Keyword abstract: NUCLEAR REACTIONS $^{103}\text{Rh}(n,\gamma)$, $E \leq 6$ keV; measured γ -spectra; deduced Q . ^{104}Rh deduced levels.

Keynumber: 1975HOZV

Coden: JOUR BAPSA 20 172 IB14

Keyword abstract: NUCLEAR REACTIONS ^{105}Pd , ^{103}Rh , $^{151, 153}\text{Eu}(n,\gamma)$, $E=20$ eV-90 keV; measured σ .

Keynumber: 1975HAWZ

Coden: CONF Julich(Highly Excited States), Vol1 P46,Harrach

Keyword abstract: NUCLEAR REACTIONS $^{103}\text{Rh}(n,\gamma)$, $E=\text{th}$; $^{100}\text{Mo}(^7\text{Li}, 3n\gamma)$, $E=27$ MeV; measured $E\gamma, \gamma(t)$. ^{104}Rh deduced levels, $T_{1/2}$, IT decay.

Keynumber: 1975HA41

Reference: J.Phys.(London) G1, 981 (1975)

Authors: T.J.Haste, B.W.Thomas

Title: Non-Statistical Aspects of Resonance Neutron Capture in ^{103}Rh

Keyword abstract: NUCLEAR REACTIONS $^{103}\text{Rh}(n,\gamma)$, $E=1-6000$ eV; measured $E\gamma, I\gamma$; deduced Q . ^{104}Rh deduced levels, resonances, J, π . Natural targets. Ge(Li) detector.

Keynumber: 1974THZF

Coden: PC B W Thomas, 11/19/74

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh , ^{93}Nb , ^{169}Tm , $^{240}\text{Pu}(n,\gamma)$; measured $E\gamma, I\gamma$. ^{104}Rh , ^{94}Nb , ^{170}Tm , ^{241}Pu deduced levels, J, π , neutron binding energies. $^{238}\text{U}(n,\gamma), E < 350$ eV; measured $\sigma(E\gamma)$. ^{239}U deduced $T_{1/2}$, resonances.

Keynumber: 1974RIZD

Coden: CONF Petten(Neutron Capture Gamma Ray Spectroscopy), P151

Keyword abstract: NUCLEAR REACTIONS ^{27}Al , ^{50}Ti , ^{51}V , ^{103}Rh , ^{127}I , $^{139}\text{La}(n,\gamma), E=14.6$ MeV; measured $\sigma(E\gamma)$.

Keynumber: 1974RI14

Reference: Nucl.Sci.Eng. 55, 17 (1974)

Authors: F.Rigaud, M.G.Desthuilliers, G.Y.Petit, J.L.Irigaray, G.Longo, F.Saporetti

Title: Improved Activation Measurements of (n, γ) Cross Section for 14.6-MeV Neutrons

Keyword abstract: NUCLEAR REACTIONS ^{27}Al , ^{50}Ti , ^{51}V , ^{103}Rh , ^{127}I , $^{139}\text{La}(n,\gamma), E=14.6$ MeV; measured σ .

Keynumber: 1974DIZZ

Coden: JOUR ZEPYA 265 No5 abstracts (Dilg)

Keyword abstract: NUCLEAR REACTIONS ^{45}Sc , ^{51}V , 63 , ^{65}Cu , $^{103}\text{Rh}(n,\gamma)$; measured $\sigma(E)$.

Keynumber: 1974DEXL

Coden: CONF Vienna(Charged-Particle-Induced Rad Capture), Proc P235

Keyword abstract: NUCLEAR REACTIONS ^{209}Bi , 42 , 43 , ^{48}Ca , Ag, Ta, In, Au, ^{139}La , $^{142}\text{Ce}(p,\gamma)$, ^{103}Rh , ^{197}Au , $^{105}\text{Pd}(n,\gamma)$, $^{48}\text{Ca}(p,n)$; analyzed σ in statistical model formalism.

Keynumber: 1974CO23

Reference: Nucl.Instrum.Methods 116, 251 (1974)

Authors: A.H.Colenbrander, T.J.Kennett

Title: The Application of a Statistical Description for Complex Spectra to the (n, γ) Reaction

Keyword abstract: NUCLEAR REACTIONS ^{27}Al , ^{45}Sc , ^{55}Mn , ^{59}Co , ^{63}Cu , ^{75}As , ^{103}Rh , ^{109}Ag , ^{115}In , ^{133}Cs , ^{185}Re , ^{197}Au , $^{203}\text{Tl}(n,\gamma)$; measured $E\gamma, I\gamma$. ^{28}Al , ^{46}Sc , ^{56}Mn , ^{60}Co , ^{64}Cu , ^{76}As , ^{104}Rh , ^{110}Ag , ^{116}In , ^{134}Cs , ^{186}Re , ^{198}Au , ^{204}Tl deduced nuclear temperature, level densities.

Keynumber: 1974CO22

Reference: Nucl.Instrum.Methods 116, 237 (1974)

Authors: A.H.Colenbrander, T.J.Kennett

Title: The Realization of a Statistical Description for Complex Spectra

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh , $^{45}\text{Sc}(n,\gamma)$; measured $E\gamma, I\gamma$, deduced method of analyzing spectra.

Keynumber: 1973SCXT

Coden: REPT HEDL-TME-73-79, F Schmittroth

Keyword abstract: NUCLEAR REACTIONS 63 , ^{65}Cu , ^{75}As , ^{79}Br , ^{107}Ag , ^{115}In , ^{71}Ga , ^{103}Rh , ^{127}I , ^{165}Ho , ^{193}Ir , $^{197}\text{Au}(n,\gamma)$; calculated $\sigma(E)$.

Keynumber: 1973LAYG

Reference: RCN-191 (1973)

Authors: G.Lautenbach

Title: Calculated Neutron Absorption Cross Sections of 75 Fission Products

Keyword abstract: NUCLEAR REACTIONS ^{81}Br , 83 , 84 , 85 , ^{86}Kr , 85 , ^{87}Rb , 88 , ^{90}Sr , ^{89}Y , 91 , 92 , 93 , 94 , 95 , ^{96}Zr , 95 , 97 , 98 , ^{100}Mo , ^{99}Tc , 101 , 102 , 104 , ^{106}Ru , ^{103}Rh , 105 , 106 , 107 , 108 , ^{110}Pd , ^{109}Ag , 111 , 112 , 113 , ^{114}Cd , ^{115}In , 126 , 128 , ^{130}Te , 127 , ^{129}I , 131 , 132 , 134 , ^{136}Xe , 133 , 135 , ^{137}Cs , ^{138}Ba , ^{139}La , 140 , ^{142}Ce , ^{141}Pr , 143 , 144 , 145 , 146 , 148 , ^{150}Nd , ^{147}Pm , 147 , 148 , 149 , 150 , 151 , 152 , ^{154}Sm , 153 , 154 , ^{155}Eu , 155 , 156 , 157 , ^{158}Gd , $^{159}\text{Tb}(n,\gamma)$; calculated $\sigma(E)$.

Keynumber: 1973KNZO

Coden: REPT COO-3058-38 P2

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh , ^{105}Pd , 151 , $^{153}\text{Eu}(n,\gamma)$; measured $\sigma(E)$.

Keynumber: 1973KNZL

Coden: REPT COO-3058-39 P17 mf

Keyword abstract: NUCLEAR REACTIONS ^{105}Pd , 151 , ^{153}Eu , $^{103}\text{Rh}(n,\gamma)$, $E=20-100$ eV; measured σ .

Keynumber: 1973HAWZ

Coden: REPT EANDC(E)157-U,P45

Keyword abstract: NUCLEAR REACTIONS ^{50}V , ^{141}Pr , $^{103}\text{Rh}(n,\gamma)$, measured $E\gamma$. ^{51}V , ^{142}Pr , ^{104}Rh deduced levels. ^{51}V deduced Sn.

Keynumber: 1973GRXS

Coden: REPT RCN-203 P226

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh , ^{92}Zr , ^{109}Ag , $^{106}\text{Pd}(n,\gamma)$, (n,n') ; calculated σ .

Keynumber: 1973BAZS

Coden: REPT INDC(SEC)-35/L P154

Keyword abstract: NUCLEAR REACTIONS ^{79}Br , ^{80}Se , ^{103}Rh , ^{115}In , $^{133}\text{Cs}(n,\gamma)$; measured σ . $^{80\text{m}}$, ^{80}Br , $^{81\text{m}}$, ^{81}Se , $^{104\text{m}}$, ^{104}Rh , $^{116\text{m}}$, ^{116}In , $^{134\text{m}}$, ^{134}Cs deduced isomeric ratios.

Keynumber: 1973ARZZ

Coden: JOUR BAPSA 18 96,J Arbo,1/15/73

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh , ^{169}Tm , $^{197}\text{Au}(n,\gamma)$; measured $\sigma(E;E\gamma)$. ^{104}Rh , ^{170}Tm , ^{198}Au deduced resonance parameters.

Keynumber: 1973ARYW

Coden: REPT COO-2176-20 P8

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh , $^{169}\text{Tm}(n,\gamma)$; measured $\sigma(E)$. ^{104}Rh , ^{170}Tm deduced resonances.

Keynumber: 1973ARYE

Coden: REPT USNDC-7 P79

Keyword abstract: NUCLEAR REACTIONS ^{169}Tm , $^{103}\text{Rh}(n,\gamma)$; measured σ . ^{170}Tm , ^{104}Rh deduced resonances, level-width.

Keynumber: 1972VA29

Reference: Nucl.Instrum.Methods 103, 549 (1972)

Authors: M.Valkonen, J.Kantele

Title: The Role of Target Geometry in 14 MeV Neutron Capture Cross-Section Measurements

Keyword abstract: NUCLEAR REACTIONS ^{81}Br , ^{103}Rh , ^{127}I , $^{170}\text{Er}(n,\gamma)$, $E=14.5$ MeV; measured σ ; analyzed target geometry effects.

Keynumber: 1972LA15

Reference: Phys.Rev. C6, 572 (1972)

Authors: A.Lakshmana Rao, J.Rama Rao

Title: Isomer Ratios in (n,γ) Reactions at 25 keV

Keyword abstract: NUCLEAR REACTIONS ^{74}Ge , ^{79}Br , ^{80}Se , ^{85}Rb , ^{103}Rh , ^{121}Sb , ^{151}Eu , $^{164}\text{Dy}(n,\gamma)$, $E=25$ keV; measured σ , isomeric ratio.

Keynumber: 1972KA21

Reference: Phys.Lett. 39B, 625 (1972)

Authors: J.Kantele, M.Valkonen

Title: Mass Number Dependence of Activation Capture Cross Sections for 14 MeV Neutrons

Keyword abstract: NUCLEAR REACTIONS ^{51}V , ^{81}Br , ^{103}Rh , ^{127}I , ^{154}Sm , ^{160}Gd , ^{165}Ho , $^{170}\text{Er}(n,\gamma)$, $E=14.5$ MeV; measured activation σ .

Keynumber: 1972HAWB

Coden: REPT ANCR-1088,P3, Y Harker, 12/11/72

Keyword abstract: NUCLEAR REACTIONS ^{99}Tc , ^{103}Rh , ^{133}Cs , ^{102}Ru , ^{147}Pm , ^{109}Ag , ^{104}Ru , ^{98}Mo , ^{141}Pr , ^{148}Nd , ^{150}Nd , ^{127}I , ^{107}Ag , 140 , ^{142}Ce , ^{159}Tb , 121 , ^{123}Sb , $^{158}\text{Gd}(n,\gamma)$; measured σ .

Keynumber: 1971RI10

Reference: Nucl.Phys. A173, 551 (1971)

Authors: F.Rigaud, J.L.Irigaray, G.Y.Petit, G.Longo, F.Saporetta

Title: Gamma-Ray Spectra Following the Capture of 14 MeV Neutrons by ^{59}Co , ^{93}Nb and ^{103}Rh

Keyword abstract: NUCLEAR REACTIONS ^{59}Co , ^{93}Nb , $^{103}\text{Rh}(n,\gamma)$, $E_n=14.06$ MeV; measured $\sigma(E\gamma)$; deduced integrated σ . Natural targets.

Keynumber: 1970RI15

Reference: Phys.Rev. C2, 1793 (1970)

Authors: K.Rimawi, J.B.Garg, R.E.Chrien, R.G.Graves

Title: Resonance Neutron Capture in Rh^{103}

Keyword abstract: NUCLEAR REACTIONS $^{103}\text{Rh}(n,\gamma)$, $E=\text{slow}$; measured $E\gamma, I\gamma$; deduced Q . ^{104}Rh deduced resonances, levels, J, π .

Keynumber: 1970HAZB

Coden: CONF Madurai(Nucl,Solid State Phys), Vol2,P36

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh , ^{127}I , $^{175}\text{Lu}(n,\gamma)$, $E=14.8$ MeV; measured σ .

Keynumber: 1970BU04

Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 34, 89 (1970); Bull.Acad.Sci.USSR, Phys.Ser. 34, 85 (1971)

Authors: N.A.Burgov, G.V.Danilyan, I.Z.Efimov, O.D.Kazachkovskii, V.S.Pavlov

Title: Spectra of γ Rays from Capture of Resonance Neutrons by Rh, Ta and Au Nuclei

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh , ^{181}Ta , $^{197}\text{Au}(n,\gamma)$, $E=\text{epithermal}$; measured $\sigma(E\gamma)$. ^{104}Rh , ^{182}Ta , ^{198}Au resonances deduced average γ -width; levels deduced J, π .

Keynumber: 1969RIZZ

Coden: THESIS K Rimawi, SUNY(Albany), DABBB 31B P3635

Keyword abstract: NUCLEAR REACTIONS ^{91}Zr , ^{94}Nb , $^{103}\text{Rh}(n,\gamma)$, E=thermal, resonance; measured $E\gamma$, $I\gamma$. ^{92}Zr , ^{95}Nb , ^{104}Rh deduced resonances, J.

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: 1969BR34

Reference: Can.J.Phys. 47, 2849 (1969)

Authors: J.S.Brzosko, E.Gierlik, A.Soltan,Jr., Z.Wilhelmi

Title: Effect of the Pigmy Resonance on the Calculations of the Neutron Capture Cross Section

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh , ^{127}I , ^{181}Ta , $^{197}\text{Au}(n,\gamma)$, E <6 keV; calculated σ (E; $E\gamma$); analyzed pigmy resonance effects.

Keynumber: 1968BRZW

Coden: REPT INR-P-967,J Brzosko

Keyword abstract: NUCLEAR REACTIONS ^{103}Rh , ^{127}I , ^{181}Ta , $^{197}\text{Au}(n,\gamma)$; calculated σ (E). ^{104}Rh , ^{128}I , ^{182}Ta , ^{198}Au deduced level spacing, level-width, pigmy resonance effects.

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 ^6Li , ^7Li , ^9Be , ^{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 , $^{207}\text{Pb}(n,\gamma)$, E = thermal; measured $E\gamma$; deduced Q. Natural targets.