

Visit the [Isotope Explorer](#) home page!

11 reference(s) found :

Keynumber: 1999HO26

Reference: Astrophys.J. 521, 735 (1999)

Authors: R.D.Hoffman, S.E.Woosley, T.A.Weaver, T.Rauscher, F.-K.Thielemann

Title: The Reaction Rate Sensitivity of Nucleosynthesis in Type II Supernovae

Keyword abstract: NUCLEAR REACTIONS ^{32}S , ^{39}K , $^{45,46}\text{Ca}$, ^{50}V , $^{69,70}\text{Zn}(\text{n},\gamma)$, ^{33}S , ^{43}Ca , $^{44}\text{Sc}(\text{p},\gamma)$, ^{33}S , ^{40}K , $^{45}\text{Ti}(\text{n},\alpha)$, ^{40}K , $^{45}\text{Ti}(\text{n},\text{p})$, $^{44}\text{Ti}(\alpha,\text{p})$, ^{24}Mg , ^{28}Si , ^{32}S , ^{36}Ar , ^{40}Ca , $^{44}\text{Ti}(\alpha,\gamma)$, E not given; analyzed stellar reactions rates. Several libraries compared.

Keynumber: 1995MO40

Reference: Aust.J.Phys. 48, 125 (1995)

Authors: A.J.Morton, D.G.Sargood

Title: Thermonuclear Reactions Rates for Reactions Leading to N = 28 Nuclei

Keyword abstract: NUCLEAR REACTIONS $^{44,46}\text{K}$, $^{46,47,48}\text{Ca}$, $^{45,47,48,49,50}\text{Sc}$, $^{46,47,48,49,50}\text{Ti}$, $^{47,48,49,50,51}\text{V}$, $^{48,49,50,51,52}\text{Cr}$, $^{51,52,53}\text{Mn}$, $^{52,53,54}\text{Fe}$, $^{55}\text{Co}(\text{n},\gamma)$, (n,p) , (n,α) , (p,γ) , (p,n) , (p,α) , (α,γ) , (α,n) , (α,p) , E not given; $^{56}\text{Ni}(\text{n},\gamma)$, (n,p) , (n,α) , (α,γ) , (α,n) , (α,p) , E not given; ^{46}Ar , $^{45,47}\text{K}(\text{p},\gamma)$, (p,n) , (p,α) , (α,γ) , (α,n) , (α,p) , E not given; calculated stellar reaction rates vs temperature. Statistical model calculations, optical-model potential.

Keynumber: 1991MI08

Reference: Z.Phys. A338, 371 (1991)

Authors: S.Michaelsen, K.P.Lieb, S.J.Robinson

Title: Complete Spectroscopy of $^{51,52}\text{V}$ via the $^{50,51}\text{V}(\text{n},\gamma)$ Reactions

Keyword abstract: NUCLEAR REACTIONS $^{50,51}\text{V}(\text{n},\gamma)$, E=thermal; measured E_γ , I_γ . $^{51,52}\text{V}$ deduced levels, J, π , neutron binding energies.

Keynumber: 1988MU26

Reference: Izv.Akad.Nauk SSSR, Ser.Fiz. 52, 2216 (1988); Bull.Acad.Sci.USSR, Phys.Ser. 52, No.11, 135 (1988)

Authors: A.V.Murzin

Title: Gamma Spectroscopy Based on Filtered Neutron Beams of an Atomic Reactor

Keyword abstract: NUCLEAR REACTIONS ^{179}Hf , ^{191}Ir , $^{143,145}\text{Nd}$, $^{50}\text{V}(\text{n},\gamma)$, E=reactor; measured γ -spectra, reduced intensities; deduced correlation coefficient.

Keynumber: 1983SA30

Reference: Aust.J.Phys. 36, 583 (1983)

Authors: D.G.Sargood

Title: Effect of Excited States on Thermonuclear Reaction Rates

Keyword abstract: NUCLEAR REACTIONS, ICPND $^{20,21,22}\text{Ne}$, ^{23}Na , $^{24,25,26}\text{Mg}$, ^{27}Al , $^{28,29,30}\text{Si}$, ^{31}P , $^{32,33,34,36}\text{S}$, $^{35,37}\text{Cl}$, $^{36,38,40}\text{Ar}$, $^{39,40,41}\text{K}$, $^{40,42,43,44,46,48}\text{Ca}$, ^{45}Sc , $^{46,47,48,49,50}\text{Ti}$, $^{50,51}\text{V}$, $^{50,52,53,54}\text{Cr}$, ^{55}Mn , $^{54,56,57,58}\text{Fe}$, ^{59}Co , $^{58,60,61,62,64}\text{Ni}$, $^{63,65}\text{Cu}$, $^{64,66,67}\text{Zn}(\text{n},\gamma)$, (n,p) , (n,α) , (p,γ) , (p,n) , (p,α) , (α,γ) , (α,n) , (α,p) , $^{70}\text{Zn}(\text{p},\gamma)$, (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.

Keynumber: 1980PIZN

Coden: CONF Kiev(Neutron Physics) Proc,Part3,P270,Pisanko

Keyword abstract: NUCLEAR REACTIONS $^{22}, ^{23}\text{Na}, ^{24}, ^{25}, ^{26}\text{Mg}, ^{27}\text{Al}, ^{28}, ^{29}, ^{30}\text{Si}, ^{31}\text{P}, ^{32}, ^{33}, ^{34}\text{S}, ^{35}, ^{36}, ^{37}\text{Cl}, ^{36}, ^{38}, ^{40}\text{Ar}, ^{39}, ^{40}, ^{41}\text{K}, ^{40}, ^{42}, ^{43}, ^{44}, ^{46}, ^{48}\text{Ca}, ^{45}, ^{46}\text{Sc}, ^{46}, ^{47}, ^{48}, ^{49}, ^{50}\text{Ti}, ^{50}, ^{51}\text{V}, ^{50}, ^{52}, ^{53}, ^{54}\text{Cr}, ^{54}, ^{56}, ^{57}, ^{58}\text{Fe}, ^{59}\text{Co}, ^{58}, ^{59}, ^{60}, ^{61}, ^{62}, ^{64}\text{Ni}, ^{63}, ^{65}\text{Cu}, ^{64}, ^{66}, ^{67}, ^{68}, ^{70}\text{Zn}, ^{69}, ^{71}\text{Ga}(\text{n},\gamma), (\text{n},\text{n}), (\text{n},\alpha), \text{E}=\text{thermal}; \text{evaluated } \sigma, \text{radiative capture resonance integrals.}$

Keynumber: 1978RO03

Reference: Z.Phys. A284, 407 (1978)

Authors: A.Robertson, T.J.Kennett, W.V.Prestwich

Title: Thermal Neutron Capture in ^{50}V

Keyword abstract: NUCLEAR REACTIONS $^{50}\text{V}(\text{n},\gamma), \text{E}=\text{th}; \text{measured } \text{E}\gamma, \text{I}\gamma; \text{deduced } \text{Q. } ^{51}\text{V} \text{ deduced levels, } \text{J}, \pi, \text{Sn.}$

Keynumber: 1973HAWZ

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

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

Keynumber: 1973HAWJ

Reference: Proc.Int.Conf.Nuc.Phys., Munich, J.de Boer, H.J.Mang, Eds., North-Holland Publ.Co., Amsterdam, Vol.1, p.175 (1973)

Authors: D.Harrach

Title: Observation of High Spin States in ^{51}V by (n,γ) -Reaction

Keyword abstract: NUCLEAR REACTIONS $^{50}\text{V}(\text{n},\gamma); \text{measured } \text{E}\gamma, \text{I}\gamma, \gamma\gamma\text{-coin. } ^{51}\text{V} \text{ deduced levels.}$

Keynumber: 1968RUZY

Reference: Program and Theses, Proc.18th Ann.Conf.Nucl.Spectroscopy and Struct.Of At.Nuclei, Riga, p.35 (1968)

Authors: E.A.Rudak, E.N.Firsov, A.M.Khilmanovich

Title: Spectrum of γ -Rays from the $^{50}\text{V}(\text{n},\gamma)^{51}\text{V}$ Reaction by Slow Neutrons

Keyword abstract: NUCLEAR REACTIONS $^{50}\text{V}(\text{n},\gamma), \text{E}=\text{thermal}; \text{measured } \sigma, \text{E}\gamma, \text{I}\gamma.$

Keynumber: 1965WH06

Reference: Nucl.Phys. 72, 241 (1965)

Authors: D.H.White, B.G.Saunders, W.John, R.W.Jewell,Jr.

Title: Neutron-Capture Gamma Ray Studies of Low-Lying ^{52}V Levels

Keyword abstract: NUCLEAR REACTIONS. $^{50}, ^{51}\text{V}(\text{n},\gamma) \text{ E} = \text{reactor spectrum}; \text{measured } \text{E}\gamma, \text{I}\gamma, \gamma\gamma\text{-coin, } \gamma\gamma(\theta). ^{52}\text{V} \text{ deduced levels. Natural target.}$