

資料リスト

I. EANDC Documents

84-U	Isotope Separation Facilities	.....	57	pages
(UK)-120-AL	U.K. Nuclear Data Progress Report, mid. 1968 - mid. 1969 E. R. Rae (also INDC(UK)-10/G)	.....	70	"
(UK)-123-AL	The EANDC-EACRP Joint Sub-Committee for Evaluations Report of the 5th Meeting in London on 10-12 June, 1970	.....	21	"
(UK)-124-AL	An Activation Technique for the Absolute Calibration of A Long Counter(AERE-R6429)	.....	20	"
(US)-134-A	Nuclear Physics Studies with Fast Neutrons: A Survey J. C. Hopkins (INDC(USA)-15G)	.....	200	"
(US)-135-A	Comparison of Calculations with Integral Experiments for Plutonium and Uranium Critical Assemblies C. C. Cremer, R. E. Hunster, J. J. H. Berlijin, D. R. Worlton	.....	22	"
(US)-136-A	Neutron Fission Cross Sections for $^{231}\text{Th}$ , $^{233}\text{Th}$ , $^{235}\text{U}$ , $^{237}\text{U}$ , $^{239}\text{U}$ , $^{241}\text{Pu}$ , and $^{245}\text{Pu}$ from 0.5 - 2.25 MeV Using (t,pf) Reactions J. D. Cramer & H. C. Britt	.....	29	"
(US)-141-A	Neutron Flux Determination in Time-of-Flight Cross- Section Measurements Using Underground Nuclear Explosions (INDC(USA)-20G) W. K. Brown, P. A. Seeger, M. G. Silbert	.....	17	"
(US)-142-A	An Evaluation of Uranium-235 Neutron Cross Section Data for Energies Above 15 keV H. Alter, C. L. Dunford (INDC(USA)-21G)	.....	20	"
(E)-126-AL	Examen Critique des Sections Efficaces Neutroniques du $^{240}\text{Pu}$ Jean-Pierre l'Heriteau, Pierre Ribbon	.....	51	"
(E)-127-U	Progress Report on Nuclear Data Research in the Euratom Community (for the period January 1 to December 31, 1969)	.....	260	"
(E)-129-AL	Measurement of the $^{235}\text{U}$ Fission Cross-Section in the Resonance Region and Discussion of the Normalization Differences A. J. Deruytter, C. Wagemans	.....	9	"
(E)-130-AL	Scattering Cross Section of $^{235}\text{U}$ Below 100 eV Determination of $\Gamma_n$ and $J$ of Resonances F. Poortmans, H. Ceulemans, et al.	.....	15	"
(E)-133-AL	The Half-Life of $^{234}\text{U}$ P. de Bievre, et al.	.....	6	"

## II. INDC Documents

(FIN)-1/G	Progress Report on Finnish Activities in Nuclear Data, 1969 Andres Palmgrem .....	4 pages
(HUN)-1/G	Nuclear Data Program at the Institute for Experimental Physics, University of Debrecen, Hungary .....	3 "
(HUN)-1/G Supplement	Progress Report on Neutron Physics Experiments in Hungary .....	11 "
(IND)-10/G	Van de Graaff Laboratory Progress Report T. P. David .....	44 "
(NDS)-21/G DRAFT	Nuclear Data Requests for Safeguards Technical Development Trevor A. Byer .....	102 "
(SAF)-2/G	Progress Report to the INDC 1969 D. Reitmann .....	9 "
(TUR)-1/G	Progress Report from Turkey to the INDC T. B. Enginal .....	6 "
(NED)-1/G	Progress Report on Neutron Physics Work Performed in the Netherlands during 1969 .....	13 "
(SEC)-10/G	Methods of Work of the International Nuclear Data Committee .....	9 "

## III. Other Documents

AAEC/E 205	Collision Probability Calculations in Cluster Geometry G. Doherty .....	28 "
AAEC/TM 520	Gunya-A Code for Generating Neutron Cross Sections H. D. Ferguson .....	42 "
TM 522	Analysis of (n-2n) Cross Sections W. K. Bertram .....	20 "
TM 526	Precise Measurements of the Average Kinetic Energy of Fragments in the Fission of Uranium 235 by Fast Neutrons N. N. Ajitanand, J. W. Boldeman .....	9 "
TM 528	Energy Balance at the Scission Point of Uranium 236 A. R. deL. Musgrove .....	10 "
TM 529	The Application of Chandrasekhar's Method to Deep Penetration Problems B. E. Clancy .....	12 "
TM 532	Few-Group Condensation Calculations for Lattice Cells G. Doherty .....	11 "

AEEW-M 954	HEXCOH: A Programme for Computing Coherent Elastic Scatter from Hexagonal Polycrystals A. T. D. Butland .....	15 pages
AERE-R 6316	The Ratio of the ${}^6\text{Li}(n,\alpha)$ to ${}^{10}\text{B}(n,\alpha)$ Cross-Section from 10 eV to 80 keV and Recommended Values of the ${}^{10}\text{B}(n,\alpha)$ Cross-Section M. G. Sowerby, B. H. Patrick, C. A. Uttley, K. M. Diment .....	23 "
AECL 3605	Accuracy of dg/dT for Fissile Isotopes, with Reference to ENDF/B (and other) Data Files	
EACRP-U-31	Distribution List for EACRP Documents EACRP Secretariat .....	74 "
EACRP-A-118	Summary Report of the Twelfth Meeting, Berlin, 3rd-7th November, 1969 .....	66 "
	International Working Group on Fast Reactors, Third Annual Meeting, Cadarache, France, 18-20 March 1970 .....	157 "

List of Reports submitted to the 2nd International  
Conference on Nuclear Data for Reactors

Helsinki, 15-19 June, 1970

CN-26/1	Media de la integral de resonancia de activación a dilución infinita con un espectrómetro de rayos gamma de Ge con Li difundido y comparación con las integrales de resonancia calculadas G. H. Ricabarra, R. Turjanski and M. D. Ricabarra .....	20	pages
CN-26/2 (AECL-3652)	Measurements of Alpha and of Fission Cross Section Ratios for $^{235}\text{U}$ , $^{235}\text{U}$ and $^{239}\text{Pu}$ at Thermal Energies M. Lounsbury, R. W. Durham & G. C. Hanna.....	9	"
CN-26/3 (AECL-3610)	The Evaluation of Fission Product Yields W. H. Walker .....	21	"
CN-26/5	Inelastic Scattering of Fast Neutrons from $^{238}\text{U}$ E. Barnard, J. A. M. de Villiers & D. Reitmann .....	12	"
CN-26/6	Fission Spectrum Averaged Neutron Cross-Sections for Some Threshold Detectors M. Najzer, J. Rant, H. Solinc .....	8	"
CN-26/7	A Measurement of the Fission Cross Section of $^{241}\text{Pu}$ Relative to $^{235}\text{U}$ F. Kappeler & E. Pfletschinger .....	12	"
CN-26/8	Reevaluation of Gold Shell Transmission Data at 24 keV Neutron Energy F. H. Frohner .....	5	"
CN-26/9	Absolute Neutron Flux Determination F. Kappeler & F. H. Frohner .....	9	"
CN-26/10	The Temperature Dependence of the Average Transmission of Gold E. Schneider & F. H. Frohner .....	13	"
CN-26/11	High Resolution Measurements of Radiative Neutron Capture in $^{47}\text{Ti}$ , $^{56}\text{Fe}$ , $^{58}\text{Ni}$ , $^{60}\text{Ni}$ and $^{61}\text{Ni}$ between 7 and 200 keV A. Ernst & F. H. Frohner & D. Kompe .....	21	"
CN-26/11A	Total Cross Sections of $^{45}\text{Sc}$ , $^{47}\text{Ti}$ , $^{49}\text{Ti}$ , $^{53}\text{Cr}$ , and $^{61}\text{Ni}$ in the keV Region M. Cho, F. H. Frohner, M. Kazerouni, K. -N. Muller & G. Rohr .....	14	"
CN-26/12 (KFK 1199)	New Total Neutron Cross Section Measurement of Uranium between 0.5-4.35 MeV D. Kopsch, S. Cierjacks, G. J. Kirouac .....	13	"
CN-26/13 (KFK 1195)	Multilevel Resonance Analysis of the Total Neutron Cross Sections of $^{23}\text{Na}$ and Ca below 1 MeV J. Neve, G. J. Kirouac .....	19	"

CN-26/14	Measurements of Neutron Resonance Total Cross Sections for Fission Product Isotopes H. H. Jung, H. G. Priesmeyer, H. Sulitze .....	5	pages
CN-26/15	Evaluation of Neutron Nuclear Data for Several Actinides in the Energy Range from Thermal to 10 MeV B. Hinkelmann .....	20	"
CN-26/16	Total Neutron Cross Section of $^{233}\text{U}$ from 7 eV to 320 eV W. Kolar, G. Carraro, G. Nasti .....	26	"
CN-26/17	Neutron Widths of $\text{U}^{238}$ from 60 eV to 5.7 keV G. Carraro & W. Kolar .....	22	"
CN-26/18	Resonance Parameters from Neutron Radiative Capture in $^{238}\text{U}$ G. Rohr, H. Weigmann, J. Winter .....	5	"
CN-26/19	Fission Cross Section Measurement of $^{233}\text{U}$ M. C. Cao, E. Migneco, J. P. Theobald, M. Merla.....	21	"
CN-26/20	Scattering Cross Section of $^{235}\text{U}$ below 100 eV Determination of Tn and J of Resonances F. Poortmans, H. Ceulemans .....	15	"
CN-26/21	The Scattering Cross Section of $^{235}\text{U}$ between 0.025 eV and 1 eV H. Ceulemans, F. Poortmans .....	8	"
CN-26/22	Study of the $^{239}\text{Pu}$ Angular Distributions in the Energy Range 0.2-5.5 MeV V. Benzi, L. Zuffi, M. Coppola & H. H. Knitter.....	11	"
CN-26/23	Measurements of Neutron Elastic Scattering from Carbon in the Energy Region of 0.50 to 2.00 MeV M. Ahmed, M. Coppola & H. -H. Knitter .....	16	"
CN-26/24	Analysis of the Total Neutron Cross-Section of Carbon from 70 eV to 1.5 MeV C. A. Uttley & K. M. Diment .....	9	"
CN-26/25	Low Energy Neutron Scattering Cross-Section of $^6\text{Li}$ A. Asami & M. C. Moxon .....	8	"
CN-26/26	A Measurement of the Ratio of the $^6\text{Li}(n,\alpha)$ and $^{10}\text{B}(n,\alpha)$ Cross-Sections from 10 eV to 80 keV and Recommended Values of the Cross-Sections up to 200 keV M. G. Sowerby, B. H. Patrick, C. A. Uttley.....	14	"
CN-26/27	Analysis of Neutron Inelastic Scattering by $^{238}\text{U}$ S. Igarasi, H. Nakamura, T. Murata & K. Nishimura.....	14	"
CN-26/28	Fast Neutron Capture Cross Sections of Cr, Fe, Ni and Mo K. Nishimura, T. Asamik, S. Igarasi, M. Hatchya & H. Nakamura .....	12	"
CN-26/29	Neutron Scattering Cross Sections of Iron Y. Tomita, K. Tsukada, M. Maruyama & S. Tanaka.....	10	"

CN-26/30	Width Fluctuation and Resonance Interference Effects in Neutron Scattering Cross Sections of Aluminum, Copper and Zinc K. Tsukada, Y. Tomita, S. Tanaka & M. Maruyama.....	20	Pages
CN-26/31	Fast Neutron Scattering from Al, Si, S and Zn S. Tanaka, K. Tsukada, M. Maruyama & Y. Tomita.....	15	"
CN-26/32	Capture Cross-Sections of Structural Materials M. C. Moxon .....	12	"
CN-26/33	The Ratio of the Capture and Fission Cross-Sections of Pu-239 in the Energy Range 100 eV to 30 KeV M. G. Schomberg, et al. ....	21	"
CN-26/34	A Simultaneous Evaluation of the Fission Cross-Sections of U-235, Pu-239 and U-238 and the Capture Cross-Section of U-238 in the Energy Range 100 eV to 20 MeV M. G. Sowerby, B. H. Patrick .....	18	"
CN-26/35	A Neutron Detector with a Flat Energy Response for Use in Time-of-Flight Experiments M. S. Coates, G. J. Hunt & E. R. Rae .....	11	"
CN-26/36	Observation of an Isomeric Level in $^{239}\text{U}$ by Means of the $^{238}\text{U}(n,\gamma)^{239}\text{U}$ Reaction B. W. Thomas, J. Murray & E. R. Rae .....	6	"
CN-26/39	Implications of Fundamental Integral Measurements on High Energy Nuclear Data for Reactor Physics A. Fabry, M. De Coster, G. Minsart, J. C. Schepers, P. Vandeplass .....	39	"
CN-26/40	The Average Number of Prompt Neutrons for Fast Neutron Fission of U-235, Pu-239 and Pu-240 (in Russian) M. V. Savin, Ju. A. Khokhlov, I. N. Paramonsva.....	17	"
CN-26/41 (UCRL -72472)	keV Fission Cross Section of $\text{U}^{235}$ Measured with High Resolution C. D. Bowman, M. L. Stelts, R. J. Baglan.....	21	"
CN-26/42	Topic C-Nuclear Data, Thermal or Resonance-A 220 - High Energy $\gamma$ Rays Following Neutron Capture in $^{239}\text{Pu}$ and $^{235}\text{U}$ R. E. Chrien and O. A. Wasson and S. Dritsa, et al.....	22	"
CN-26/43	Measurements of Cross Sections for the Radiative Capture of 1-keV to 1-MeV Neutrons by Mo, Rh, Gd, Ta, W, Re, Au and $^{238}\text{U}$ M. P. Fricke, W. M. Lopez, S. J. Friesenhahn A. D. Carlson and D. G. Costello .....	24	"
CN-26/44	Calculations of Cross Sections for the Radiative Capture of Fast Neutrons M. P. Fricke, W. M. Lopez, S. J. Friesenhahn.....	16	"
CN-26/45	Fission and Capture Cross Sections of Curium F. B. Simpson, J. R. Berreth, R. D. Baybarz et al. ....	27	"

CN-26/46	A Simultaneous Measurement of the Fission, Capture, Scattering and Total Cross Sections of $^{239}\text{Pu}$ J. A. Farrell, G. F. Auchampaugh, M. S. Moore et al. ....	10	pages
CN-26/47	$^{235}\text{U}$ and $^{239}\text{Pu}$ Capture-to-Fission Ratio J. B. Czirr & J. S. Lindsey .....	11	"
CN-26/48	Determination of Resonance Parameters of Pu-240 Using Crystal Spectrometer D. V. S. Ramakrishna & M. P. Navalkar .....	8	"
CN-26/49	The Influence of the Uncertainties of $\sigma_{25}^f$ in the Monte Carlo Calculations of Small Critical Assemblies U. Benzi, E. Cupini, A. De Matteis .....	7	"
CN-26/50	Correlated Analysis of Fissile Element Cross Sections and Interpretation in Terms of R Matrix Parameters F. T. Adler & D. B. Adler		
CN-26/51	Integral Measurement of Fission Product Reactivity Worths in So in Some Fast Reactor Spectra T. L. Andersson et al. ....	21	"
CN-26/52	Compound Nuclear Calculations of Low-Energy Neutron Reaction Cross Sections Using Level Densities from Exact Counting of Shell Model States John R. Eriksson .....	7	"
CN-26/53 54	Neutron Elastic Scattering Cross Sections of Vanadium, Chromium, Iron and Nickel B. Holmqvist & T. Wiedling .....	12	"
CN-26/55	Fast Neutron Elastic Scattering at 8 MeV B. Holmqvist & T. Wiedling .....	11	"
CN-26/56	Fast Neutron Inelastic Scattering in the Energy Range 2 to 4.5 MeV E. Almén et al. ....	10	"
CN-26/57	Neutron Energy Spectra from Neutron Induced Fission of $^{238}\text{U}$ at 1.35 and 2.02 MeV E. Almén et al. ....	12	"
CN-26/58	Redetermination of the Thermal-Neutron Absorption Cross Sections of Gross Fission Products of $^{233}\text{U}$ , $^{235}\text{U}$ and $^{239}\text{Pu}$ A. Okazaki & E. K. Sokolowski .....	21	"
CN-26/59	$\bar{\nu}$ of $^{235}\text{U}$ and $^{239}\text{Pu}$ in a Fast Reactor Spectrum H. Condé & L. Widien .....	11	"
CN-26/60	Mesure et Analyse des Sections Efficaces de Fission de $^{235}\text{U}$ et de $^{241}\text{Pu}$ J. Blons, G. Debril et al. ....	15	"
CN-26/61	Analyse Simultanee de 5, 7 A 160 eV de Sections Efficaces Totale et de Fission de $^{239}\text{Pu}$ par un Formalisme Multiniveaux H. Derrien et al. ....	15	"

CN-26/62	Determination du Spin des Resonances Induites par Neutrons Lents dans $^{239}\text{Pu}$ J. Trochon, et al. ....	21 pages
CN-26/63	Mesure a Haute Resolution et Analyse de la Section Efficace de Fission de $^{239}\text{Pu}$ J. Blons et al. ....	14 "
CN-26/65	Methode d'Analyse de Forme des Sections Efficaces des Noyaux Fissiles P. Ribon ....	12 "
CN-26/66	Principe de la Mesure des Sections Efficaces n-2n et n-3n sur Materiaux Fissiles par la Technique du Gros Scintillateur Liquide J. Frehaut, J. Gauriau, G. Mosinski & M. Soleilhac .....	10 "
CN-26/67	Mesure du Mombre Moyen de Neutrons Prompts de Fission et des Sections Efficaces Relatives pour la Fission de $^{235}\text{U}$ et $^{239}\text{Pu}$ par des Neutrons d'Energie Comprise Entre 0, 3 et 1, 4 MeV M. Soleilhac, J. Frehaut, J. Gauriau & G. Mosinski .....	15 "
CN-26/68	Mesure des Sections Efficaces Totales Neutroniques du Carbone, Nickel, $^{235}\text{U}$ , $^{238}\text{U}$ , $^{239}\text{Pu}$ Entre 0, 1 MeV et 6 MeV J. Cabe et al. ....	11 "
CN-26/69	Mesure Absolue de la Section Efficace de Fission de $^{235}\text{U}$ et de $^{239}\text{Pu}$ Entre 0.025 et 1 MeV .....	21 "
CN-26/70	Developpement des Methodes de Mesure Absolue des Flux de Neutrons Rapides dans la Gamme de 10 keV à MeV J. L. Leroy, et al. ....	17 "
CN-26/72	Section Efficace de la Reaction $^6\text{Li}(n,\alpha)\text{T}$ dans la Gamme d'Energie Allant de 100 keV à 500 keV E. Poet .....	15 "
CN-26/73	Role Complementaire des Experiences Integrales par Rapport aux Mesures Differentielles pour un Project de Reacteur a Neutrons Rapides cas des Isotopes du Plutonium J. Y. Barre et al. ....	32 "
CN-26/74	Some Characteristics of the Process of Pu-239 Fission Induced by Fast Neutrons U. F. Kuznetsov et al. ....	18 "
CN-26/75	Integral Measurements of the Average Number of Secondary Neutrons Eff Emitted in one Capture Event in Intermediate Critical Assemblies C. M. Veselova, et al. ....	16 "
CN-26/76	Density of Exited States of Atomic Nuclei A. V. Ignatyuk, et al. ....	40 "



CN-26/77	Radiative Capture of Neutrons with Energies in the Range 0.024-0.15 MeV by U-238 Nuclei Yu. G. Panitkin, et al. ....	11 pages
CN-26/78	Radiative Capture of Neutrons by U <sup>238</sup> Yu. Ya. Stavisskii (in Russian) .....	12 "
CN-26/79	Inelastic Scattering of Fast Neutrons by Chromium, Manganese, Cobalt, Nickel, Yttrium, Zirconium, Tungsten and Bismuth Nuclei O. A. Sainikov et al. ....	21 "
CN-26/80	Cross Sections for Radiative Neutron Capture by U-238 Nuclei A. I. Abramov et al. (in Russian) .....	23 "
CN-26/83	Evaluation of <sup>238</sup> U Neutron Cross Sections for the ENDF/B File T. A. Pitterle .....	21 "
CN-26/85	Temperature Dependence of the Cross Section Structure of U-238 in the Unresolved Resonance Region A. A. Vankov et al. (in Russian) .....	15 "
CN-26/87	Neutron Cross Sections of Isotopes Used as Absorbers in Atomic Reactors V. P. Vertebny et al. (in Russian) .....	19 "
CN-26/88	Analysis of the Neutron Energy Dependence of on the Basis of the Energy Balance in Nuclear Fission V. G. Vorobeva et al. (in Russian) .....	9 "
CN-26/89	Measurement of the Ratio of the U-235 Capture and Fission Cross Sections for Neutrons from the Resonance Energy Region to 5 MeV F. N. Belyaev, et al. (in Russian) .....	24 "
CN-26/90	Measurement of the Energy Spectra and the Average Number of Prompt Neutrons from the Fission of Actinide Elements (in Russian) .....	24 "
CN-26/91	Analysis of High Energy Neutron Cross Sections for Fissile and Fertile Isotopes A. Prince	
CN-26/96	Mesures Integrales du Alpha pour le Plutonium 239 et l'Uranium 235 J. Bouchard et al. ....	29 "
CN-26/97	Mesure des Sections Efficaces de l'Uranium 233 pour les Neutrons Thermiques R. Vidal et al. ....	13 "
CN-26/98	Nuclear Cross-Section Requirements for Fission Reactors U. S. Crocker, et al. ....	28 "

CN-26/100	Precise 2200 m/s Fission Cross-Sections of $^{239}\text{Pu}$ and $^{235}\text{U}$ A. J. Deruytter & W. Becker	.....	11 pages
CN-26/101	General Status of Nuclear Data Requirements J. J. Schmidt	.....	17 "
CN-26/102	Implications of Nuclear Data Uncertainties to Reactor Design P. Greebler et al.	.....	21 "
CN-26/104	Nuclear Data for Thermal Reactor Yu. F. Chernilin, et al. (in Russian)		36 "
CN-26/105	Progress in Understanding Neutron Interactions with Nuclei J. E. Lynn	.....	29 "
CN-26/107	Cross-Sections of the Heavy Nuclei in the Resonance Region G. D. James	.....	27 "
CN-26/108	Evaluation dans le Domaine des Resonances par les Noyaux de Nombre de Masse 220	.....	35 "
CN-26/109	Neutron-Spectroscopic Study of Nuclei with A 220 in the Resonance Energy Region G. V. Muradyan (in Russian)	.....	18 "
CN-26/110	Neutron Cross-Section Evaluation in the Thermal and Resonance Energy Range for Nuclides of Mass Less Than 220 J. S. Story	.....	28 "
CN-26/111	Recent Experimental Data for Heavy Nuclei W. P. Poenitz	.....	31 "
CN-26/112	Status of Important Heavy Element Nuclear Data Above the Resonance Region W. G. Davey		
CN-26/113	Neutron Total, Scattering and (n,x) Reaction Cross Sections Above the Resonance Region S. Cierjacks	.....	30 "
CN-26/114	Radiative Neutron Capture Cross Sections for Nuclides of A 220 Above Resonance Regions A. I. Abramov (in Russian)	.....	19 "
CN-26/115	Evaluation of Nuclear Data Above the Resonance Energy Region: A 220	.....	16 "
CN-26/116	The Relationship of Microscopic and Integral Data C. G. Campbell, J. L. Rowlands	.....	44 "
CN-26/117	Theoretical and Experimental Analysis of Fast Zero Power Assemblies with Special Consideration to Nuclear Data Check R. Böhme et al.	.....	48 "
CN-26/118	Progress in International Nuclear Data Compilation and Exchange (A Report of the Four Neutron Data Centers) S. Pearlstein	.....	23 "

- CN-26/120 The Application of Interactive Computer Graphics to Nuclear  
Data Evaluation Problems  
Harry Alter & Charles L. Dunford ..... 25 pages
- CN-26/121 Method for the Direct Measurement of the Ratio of Capture  
Cross-Section to Fission Cross-Section (in Russian)
- CN-26/125 Alpha-Particle Widths for Neutron Resonances  
Yu. P. Popov, et al.