

TABLE OF CONTENTS

Volume 16

Session A-11: Nuclear Data		Page	
P/1018	Spinrad, Avery.....	Reactor Physics Constants Center.....	3
P/2483	Hughes.....	Cross Sections of Interest in Reactor Design.....	8
P/14	Rose <i>et al.</i>	Thermal Reactor Problems.....	34
P/11	Pattenden	Neutron Cross Sections of Importance to Reactors.....	44
P/203	Eastwood <i>et al.</i>	Determination of Cross Sections of Reactor Interest....	54
P/1072	Halperin, Stoughton	Cross Sections of Heavy Nuclides.....	64
P/202	Westcott <i>et al.</i>	Effective Thermal Reactor Neutron Cross Sections.....	70
P/685	Coté <i>et al.</i>	Slow Neutron Cross Section.....	77
P/205	Craig <i>et al.</i>	Long Irradiation of Natural Uranium.....	83
P/2417	Blomberg	Neutron Cross Sections of Some Reactor Materials.....	97
P/1599	Şaplakoğlu.....	New Technique for Absolute Fission Cross Sections....	103
P/1186	Billaud <i>et al.</i>	Measurement of Fission Cross Sections and Number of Prompt Neutrons.....	106
P/52	Colvin, Sowerby	Precise Measurement of $\bar{\nu}$	121
P/204	Bigham <i>et al.</i>	Some Slow Neutron Fission Cross Sections.....	125
P/2149	Kalinin, Pankratov	Some Fast Neutron Fission Cross Sections.....	136
P/2223	Gordeev, Pupko	Absorption Cross Section of U^{235} Fission Fragments....	141
P/673	Harvey <i>et al.</i>	Radioactive Fission-Product Nuclides.....	150
P/1988	Adler <i>et al.</i>	Quantitative Evaluation of Resonance Integrals.....	155
P/150	Brimberg, Dahlström.....	Resonance Integral Temperature Coefficient.....	172
P/2489	Richtmyer <i>et al.</i>	Monte-Carlo Calculation of Resonance Capture.....	180
P/19	Morton	Resonance Escape Probability.....	187
P/1847	Spinrad <i>et al.</i>	Resonance Capture in Uranium and Thorium Lumps...	191
RECORD OF SESSION		207	

Session A-12: Nuclear Data and Reactor Theory

P/18	Schofield, Hassitt.....	Calculation of Thermal Neutron Spectra.....	217
P/2033	Drozdov <i>et al.</i>	Calculation of Thermal Neutron Spectra.....	223
P/10	Campbell <i>et al.</i>	Measurements of Reactor Spectra.....	233
P/2152	Mostovoi <i>et al.</i>	Measurement of Neutron Spectra.....	254
P/1636	Ramanna <i>et al.</i>	Spectrum of Neutrons from Moderators.....	260

	Page	
P/1372 Santandrea <i>et al.</i>	Neutron Temperature Measurements.....	265
P/1839 Nelkin, Cohen.....	Neutron Thermalization.....	270
P/2148 Kazarnovsky <i>et al.</i>	Neutron Thermalization and Diffusion in Heavy Media	279
P/1567 Koppel	Moderation in Infinite, Heavy, Monatomic Gas.....	289
P/1540 McReynolds <i>et al.</i>	Neutron Thermalization by Bound Hydrogen and Carbon	297
P/1634 Ramanna	Slowing Down Time in BeO.....	314
P/1639 Kothari, Singwi.....	Slowing Down of Neutrons.....	316
P/1635 Gokhale <i>et al.</i>	0.09 ev Neutron Moderation Experiments.....	319
P/1637 Sarma <i>et al.</i>	Transmission of Slow Neutrons through BeO.....	322
P/1638 Singwi, Kothari	Thermal Transport Cross Sections in Solid Moderators..	325
P/1673—Part II Neve de Mévergnies <i>et al.</i>	The BR-I Pile, Physics.....	333
RECORD OF SESSION		351

Session A-13: Reactor Theory and Computing Methods

P/2151 Marchuk <i>et al.</i>	Reactor Calculation Methods.....	359
P/966 Humbach.....	Neutron Slowing Down in Finite Media.....	372
P/2375 Goldstein <i>et al.</i>	Slowing Down of Neutrons in Hydrogenous Media.....	379
P/1711 Mogyorodi	Probability Theory in Neutron Motion.....	406
P/624 Stuart.....	Neutron Multiple Scattering Methods.....	409
P/1691 Grosjean.....	Multiple Isotropic Neutron Scattering.....	413
P/1692 Grosjean.....	Theory of Multiple Isotropic Scattering II.....	431
P/1377 Albertoni <i>et al.</i>	Integral Formulation of Age Theory.....	447
P/153 Waller	Energy-Time Distribution of Moderated Neutrons.....	450
P/1950 Iyengar, Mani.....	Transient Fast Neutron Moderation in Fissile Media....	452
P/1194 Lafore <i>et al.</i>	Monte-Carlo Study of Fast Neutrons in Water.....	456
P/1843 Gelbard <i>et al.</i>	Digital Computers in Reactor Design.....	473
P/633 Wachspress <i>et al.</i>	Two-Space Dimension Multigraph Calculations.....	483
P/1378 Albertoni <i>et al.</i>	Computer Code for Spherical Reactor Parametric Study	489
P/959 Grümm, Herre.....	Group-Constant Tolerances in Reactor Calculations....	492
P/310 Schaefer, Parkyn	Monte-Carlo Study of Thermal Utilization and Diffusion Area	496
P/639 Bareiss	Transport Theory Calculation Techniques.....	503
P/627 Francis <i>et al.</i>	Solutions of the Transport Equation.....	517
P/573 Aspelund	A New Solution of the Boltzmann Transport Equation..	530
P/2386 Carlson, Bell	Solution of the Transport Equation by the S_n Method..	535
P/2102 Trlifaj, Čermák.....	Neutron Transport Theory in Slab Lattices.....	550
P/1103 Tunkelo	Neutron Transport and Diffusion Theories Compared...	559
P/1085 Medina	Green Functions for a Homogeneous Reactor.....	566

	Page
P/1541 Varga, Martino	570
P/1869 Triplett	578
P/2224 Veinik <i>et al.</i>	586
P/2272 Jacob	590
P/634 Nohel, Timlake	595
P/2189 Laletin	601
P/968 Meetz	611
P/272 Barden <i>et al.</i>	627
P/1440 Stippel	639
P/1100 Simons	644
P/631 Stewart, Zweifel	650
P/2034 Belkin <i>et al.</i>	663
P/53 Jeffrey	671
P/1055 Winterberg	675
P/1710 Pál	687
P/1084 Medina	697
P/2344 Inönü	701
P/325 Dopchie	706
P/475 Ribarič	711
P/1337 Makishima <i>et al.</i>	715
P/1804 Ortega Costa	730
P/17 Mossop, McGhee	736
RECORD OF SESSION	742