

NUCLEAR SCIENCE AND ENGINEERING®

VOLUME 106, NUMBER 3, NOVEMBER 1990

CONTENTS

- vii Note *S. Cierjacks, G. Kessler,
D. G. Cacuci*
- TECHNICAL PAPERS**
- 235 Mirror-Based Neutron Sources for Fusion Technology Studies *A. A. Ivanov, D. D. Ryutov*
- 243 KORONA, An Intense Sealed-Tube 14-MeV Neutron Generator *R. Pepelnik, H. U. Fanger,
W. Michaelis*
- 249 Status of OKTAVIAN I and Proposal for OKTAVIAN II *Kenji Sumita,
Akito Takahashi,
Toshiyuki Iida,
Junji Yamamoto*
- 266 The Multipurpose 14-MeV Neutron Source at Bratislava *Juraj Pivarč,
Stanislav Hlaváč*
- 279 Sources of Variable Energy Monoenergetic Neutrons for Fusion-Related Applications *M. Drosg*
- 296 A Rotating Gas Cell for High-Intensity Monoenergetic Neutron Production *R. C. Haight, J. Garibaldi*
- 299 Dense Plasma Focus as a Neutron Source for Fusion Research *Hans Conrads*
- 308 Neutron Production from the Deuteron Breakup Reaction on Deuterium *S. Cabral, G. Börker,
H. Klein, W. Mannhart*
- 318 Summary of Monoenergetic Neutron Beam Sources for Energies >14 MeV *F. P. Brady, J. L. Romero*
- 332 Calibrated Fission and Fusion Neutron Fields at the Kyoto University Reactor *Itsuro Kimura,
Katsuhei Kobayashi*
- 345 Evaluation of ^{252}Cf Prompt Fission Neutron Data from 0 to 20 MeV by Watt Spectrum Fit *F. H. Fröhner*
- 353 The $^{252}\text{Cf}(\text{sf})$ Neutron Spectrum in the 5- to 20-MeV Energy Range *H. Märten, D. Richter,
D. Seeliger, W. D. Fromm,
R. Böttger, H. Klein*

(Continued)

VOLUME 106, NUMBER 3, NOVEMBER 1990

CONTENTS

(Continued)

TECHNICAL PAPERS

- 367** Results of a Low-Background Measurement of the Fission Neutron Spectrum from ^{252}Cf in the 9- to 29-MeV Energy Range
A. Chalupka, L. Malek, S. Tagesen, R. Böttger
- 377** Investigation of the Spectral Fluence of Neutrons from Spontaneous Fission of ^{252}Cf by Means of Time-of-Flight Spectrometry
R. Böttger, H. Klein, A. Chalupka, B. Strohmaier