

## List of JAERI Documents (updated 02/01/2008)

### JAEA-Research/JAERI-Research

- 2007-052** Studies on Representative Disruption Scenarios, Associated Electromagnetic and Heat Loads and Operation Window in ITER  
Hirobumi Fujieda, Masayoshi Sugihara, Michiya Shimada, Yuri Gribov, Kimihiro Ioki, Yasunori Kawano, Rustan Khayrutdinov, Victor Lukash, Junji Ohmori, Yuzuru Neyatani  
ITER Diagnostics Group, Fusion Research and Development Directorate  
July 2007
- 2007-041** Horonobe Underground Research Laboratory Project  
Investigation Program for the 2006 Fiscal Year (Translated Document)  
Hiroya Matsui, Tadafumi Niizato, Takehiro Yamaguchi  
Sedimentary Environment Engineering Group, Geological Isolation Research and Development Directorate  
February 2007
- 2007-037** A Study on Timing of Rapid Depressurization Action during PWR Vessel Bottom Break LOCA with HPI Failure and AIS Gas Inflow (ROSA-V/TF Test SB-PV-06)  
Mitsuhiro Suzuki, Takeshi Takeda, Hideaki Asaka, Hideo Nakamura  
Thermohydraulic Safety Research Group, Nuclear Safety Research Center  
March 2007
- 2007-017** Study on Simulation of Salt Accumulation  
Tomoo Fujita, Mikazu Yui, Hideaki Suzuki, Kiyoshi FDUjisaki, Masami Sazarashi  
Near-Field Research Group, Geological Isolation Research and Development Directorate  
March 2007 (in Japanese)
- 2007-021** Requirements for Expected Performance of Closure Components in Crystalline Rock  
Tomoo Fujita, Yasuhiro Suyama, Masaru Toida  
Near-Field Research Group, Geological Isolation Research and Development Directorate  
March 2007 (in Japanese)
- 2007-013** Behavior on O/M Ratio for ASm Containing MOX Fuel  
Isamu Sato, Takayuki Seki, Yohei Ishii, Kenji Mondo, Hiroshi Yoshimochi, Kenya Tanaka  
Fuel and Material Department, Orai Research and Development Center  
March 2007 (in Japanese)
- 2007-012** Photocatalytic Activity of Sulfur-doped TiO<sub>2</sub> Fiber under Visible Light Illumination  
Akimori Takeyama, Shunya Yamamoto, Masahito Yoshikawa, Yoshio Hasegawa, Satoshi Awatsu  
Advanced Ceramics Group, Quantum Beam Science Directorate  
March 2007 (in Japanese)
- 2007-009** Investigation Concerning Influence of Cosmic Rays on Criticality Accident Alarm System – Relationship between “Single Detection” and Cosmic Rays  
Kenji Izaki, Hideki Susuki, Hirohiko Tsubaki, Kiyoshi Ozeki  
Radiation Protection Department, Nuclear Fuel Cycle Engineering Laboratory, Tokai Research and Development Center  
March 2007 (in Japanese)
- 2007-008** Multi-scale Analysis of Deformation Behavior at SCC Crack Tip (II)  
Yoshiyuki Kaji, Yukio Miwa, Takashi Tsukada, Masao Hayakawa, Nobuo Nagashima  
Research Group for Corrosion Damage Mechanism, Nuclear Science and Engineering Directorate  
March 2007 (in Japanese)

- 2007-003** A Study for Improvement of the Credibility of Evaluation Method for the Long-term Dynamical Behavior of Near-field Rock Mass  
Masayuki Hiramoto, Yasushi Kobayashi, Shigeo Aoyagi, Shunichi Miyanome, Atsushi Morita  
Near-Field Research Group, Geological Isolation Research and Development Directorate  
March 2007 (in Japanese)
- 2007-002** Research on the State-of-the-Art of Probabilistic Safety Assessment for Non-reactor Nuclear Facilities (II)  
Kazuo Yoshida, Hitoshi Abe, Yuichi Yamane, Sinsuke Toshiro, Ken Muramatsu  
Risk Analysis and Applications Research Group, Nuclear Safety Research Center  
March 2007 (in Japanese)
- 2006-089** Kinetic Simulations of Electrostatic Plasma Waves using Cubic-Interpolated-Propagation Scheme  
Maxime Lesur, Yasuhiro Idomura, Shinji Tokuda  
Center for Computational Science and e-systems  
January 2007
- 2006-083** Study on Transient Temperature Measurement at Fuel Clad Surface in NSRR Experiments  
Vincent Bessiron, Tomoyuki Sugiyama, Toyoshi Fuketa  
Fuel Safety Research Group, Nuclear Safety Research Center  
January 2007
- 2006-072** A Study on Effective System Depressurization during a PWR Vessel Bottom Break LOCA with HPI Failure and Gas Inflow Prevention (ROSA-V/LSTF Test SB-PV-05)  
Mitsuhiro Susuki, Takeshi Takeda, Hideaki Asaka, Hideo Nakamura  
Thermohydraulic Safety Research Group, Nuclear Safety Research center  
November 2006
- 2006-071** Evaluation of Deuteron-induced Activation for IFMIF Accelerator Structural Materials  
Makoto Nakao, Jun-ichi Hori, Kentaro Ochiai, Naoyoshi Kubota, Satoshi Sato, Michinori Yamauchi, Noriko S. Ishioka, Hiroyuuki Suda, Takeo Nishitani  
Fusion Neutronics Group, Fusion Research and Development Directorate  
November 2006
- 2006-034** Preparation and Characterization of B-C-N Hybrid Thin Films  
Md. Nizam UDDIN, Iwao SHIMOYAMA, Tetsuhiro SEKIGUCHI, Krishna G. NATH, Yuji BABA, Masamitsu NAGANO  
June 2006
- 2005-017** Coarse break-up of a stream of oxide and steel melt in a water pool  
Kiyofumi Moriyama, Yu Maruyama, Tsutomu Usami, Hideo Nakamura  
August 2005
- 2005-028** In Japanese
- 2005-026** In Japanese
- 2005-025** In Japanese
- 2005-024** In Japanese
- 2005-021** In Japanese
- 2005-017** Coarse break-up of a stream of oxide and steel melt in a water pool  
Kiyofumi Moriyama, Yu Maruyama, Tsutomu Usami, Hideo Nakamura  
August 2005
- 2005-015** An irradiation experiment for qualification of insulating coating  
Masaru NAKAMICHI, Hiroshi KAWAMURA

June 2005

- 2005-014** Experimental study on secondary depressurization action for PWR vessel bottom small break LOCA with HPI failure and gas inflow (ROSA-V/LSTF Test SB-PV-03)  
Mitsuhiro Suzuki, Takeshi Takeda, Hideaki Asaka, Hideo Nakamura  
June 2005
- 2005-013** Proposal of new  $^{235}\text{U}$  nuclear data to improve  $K_{\text{eff}}$  biases on  $^{235}\text{U}$  enrichment and temperature for low enriched Uranium fueled lattices moderated by light water  
Haicheng Wu, Keisuke Okumura, Keiichi Shibata  
June 2005
- 2005-011** Analysis on non uniform flow in steam generator during steady state natural circulation cooling  
Susyadi, Taisuke Yonomoto  
June 2005
- 2005-007** Evaluation of RF properties by orifice design for IFMIR RFQ  
Sunao Maebara, Shin-ichi Moriyama, Mikio Saigusa, Masayuoshi Sugimoto  
March 2005
- 2005-003** Hydrogen permeation measurement of the reduced activation ferritic steel F92H by the vacuum thermo-balance method  
Hajime Yoshida, Yasuo Kosaku, Mikio Enoda, Tetsuya Abe, Masato Akiba  
March 2005
- 2005-002** Corrosion behavior of austenitic and ferritic/martensitic steels in Oxygen-saturated liquid Pb-Bi eutectic at 450°C and 550°C  
Yuji Kurata, Masatoshi Futakawa, Shigeru SAITO  
February 2005
- 2004-028** In Japanese
- 2004-027** Energy confinement and transport of H-mode Plasmas in Tokamak  
Hajime Urano  
February 2005
- 2004-026** Criticality and Doppler reactivity worth uncertainty due to resolved resonance parameters errors – formula for sensitivity analysis  
Atsushi Zukeran, Tsuneo Nakagawa, Keiichi Shibata, Makoto Ishikawa, Tetsushi Hino  
February 2005
- 2004-022** Behaviour of irradiated PWR fuel under simulated RIA conditions – Results of the NSRR Tests GK-1 and GK-02  
Hideo SASAJIMA, TOMoyuki SUGIYAMA, Takehiko NAKAMURA, Toyoshi FUKETA  
December 2004
- 2004-018** Decomposition of *p*-Nonylphenols in water by  $^{60}\text{Co}$   $\gamma$ -ray irradiation  
Atsushi KIMURA, Mitsumasa TAGUCHI, Takuji KOJIMA, Hiroshi HIRATSUKA, Hideki NAMBA  
January 2005
- 2004-010** Global characteristics of zonal flows generated by Ion temperature gradient driven turbulence in Tokamak Plasmas  
Naoki Miyato, Yasuaki Kishimoto, Jiquan Li  
August 2004
- 2004-005** Analysis of impurities in Beryllium, affecting evaluation of the Tritium breeding ratio  
Yury M. VEFZILOV, Kentaro OCHIAI, Satoshi SATO, Masayuki WADA, Michinori YAMAUCHI, Takeo JNISHITANI

March 2004

- 2004-002** Neutronic study on seed-blanket type reduced-moderation water reactor fuel assembly  
Afroza SHELLEY, Teruhiko KUGO, Shoichiro SHIMADA, Tsutomu OKUBO, Takamichi IWAMURA  
March 2004
- 2003-021** Evaluations of Medium-Heavy Nuclide Data for JENDL-3.3  
Keiichi SHIBATA, Tetsuo ASAMI, Takashi WATANABE, Yukinobu WATANABE, Nobuhiro YAMAMURO, Masayuki IGASHIRA, Hideo KITAZAWA  
September 2003
- 2003-020** Re-evaluation of neutron nuclear data for  $^{129}\text{I}$  and  $^{143}\text{Nd}$   
Tsuneo NAKAGAWA, Akira HASEGAWA  
September 2003
- 2003-019** Feasibility study of the water Cherenkov detector as a D-T fusion power monitor in the system using neutron activation of flowing water – first experimental phase  
Yury M. VERZILOV, Kentaro OCHIAI, Takeo NISHITANI  
September 2003
- 2003-017** Development of a high-energy, ultrabroadband Ti-sapphire ring regenerative amplifier  
Koichi Yamakawa  
September 2003
- 2003-015** Formulating Analytic Expression for Atomic Collision Cross Sections  
Tatsuo TABATA, Hirotaka KUBO, Masao SATAKA  
August 2003
- 2003-014** Study on shielding design method of radiation streaming in a TOKAMAK-Type DT fusion reactor based on Monte Carlo Calculation  
Satoshi SATO  
September 2003
- 2003-007** Analytical study of two-region TCA critical experiments with PWR-type MOX Fuel by using Monte Carlo Code MVP  
Mafizur RAHMAN, Takenori SUZAKI, Takamasa MORI  
March 2003
- 2003-005** Off-line test of pitting damage in Mercury target  
Masatoshi FUTAKAWA, Hiroyuki KOGAWA, Chin-Chi TSAI, Shuichi ISHIKURA, Yujiro IKEDA  
March 2003
- 2003-004** A systematics of fission product mass yields with 5 Gaussian functions  
Jun-ichi KATAKURA  
March 2003
- 2003-001** Evaluation of covariances for resolves resonance parameters of  $^{235}\text{U}$ ,  $^{238}\text{U}$ , and  $^{239}\text{Pu}$  in JENDL-3.2  
Toshihiko KAWANO, Keiichi SHIBATA  
February 2003
- 2002-035** Re-evaluation of Neutron Nuclear Data for  $^{242\text{m}}\text{Am}$ ,  $^{243}\text{Am}$ ,  $^{99}\text{Tc}$  and  $^{140}\text{Ce}$   
Tsuneo NAKAGAWA, Osamu IWAMOTO, Akira HASEGAWA  
December 2002
- 2002-034** Adsorption Mechanisms and models of  $^{85}\text{Sr}$ ,  $^{237}\text{Np}$ ,  $^{238}\text{Pu}$  and  $^{241}\text{Am}$  in Loess Media (Joint Research)

Tadao TANAKA, Masayuki MUKAI, Toshikatsu MAEDA, Junko MATSUMOTO, Hiromichi OGAWA, Shushen LI, Zhiming WANG, Jinsheng WANT, Zede GUO, Yingjie ZHAO  
December 2002

- 2002-032** Nuclear Data Evaluation for  $^{237}\text{Np}$ ,  $^{241}\text{Am}$ ,  $^{242g}\text{Am}$  and  $^{242m}\text{Am}$  irradiated by Neutrons and Protons at Energies up to 250 MeV
- 2002-029** Nuclear Data Evaluation for  $^{238}\text{Pu}$ ,  $^{239}\text{Pu}$ ,  $^{240}\text{Pu}$ ,  $^{241}\text{Pu}$  and  $^{242}\text{Pu}$  Irradiated by Neutrons and Protons at the energies up to 250 MeV
- 2002-028** Neutron and Proton Nuclear Data Evaluation for  $^{235}\text{U}$  and  $^{238}\text{U}$  at energies up to 250 MeV  
A. Yu. KONOBEYEV, Tokio FUKAHORI, Osamu IWAMOTO  
Decembe 2002
- 2002-020** High efficiency, High energy second-harmonic generation of Nd: Glass laser radiation in large aperture  $\text{CsLiB}_6\text{O}_{10}$  crystals  
Hiromitsu KIRIYAMA, Norihiro INOUE, Koichi YAMAKAWA  
September 2002
- 2002-016** Molecular dynamics simulation of 8-Oxoguanine Lesioned DNA complexed with repair enzyme hOFF1  
Miroslav PINAK  
September 2002
- 2002-013** Evaluation of Neutron-induced reactions on  $^{236}\text{Pu}$  for JENDL-3.3  
Osamu IWAMOTO, Tsuneo NAKAGAWA  
July 2002
- 2002-007** Irradiation effects on Plasma Diagnostic Components (II)  
Takeo NISHITANI, Tatsuo SHIKAMA, Tatsuo SUGIE, Satochi KASAI, Etsuo ISHITSUKA, Hiroshi KAWAMURA, Tsunemi KAKUTA, Toshiaki YAGI, Shigeru TANAKA, Makoto NARIU, Masayuki FUKAO, Noriko YOKOO, Roger REICHEL, Robin SNIDER, Takahide NAKAYAMA, Isamu SONE, Mitsushi ABE, Shin YAMAMOTO  
March 2002
- 2002-001**  
*NEA/NSC/DOC(2002)2* OECD/NEA Burnup Credit Criticality Benchmarks Phase IIIB: Burnup Calculations of BWR Fuel Assemblies for Storage and Transport  
Hiroshi OKUNO, Yoshitaka NAITO, Kenya SUYAMA
- 2001-033** A study of fuel failure behavior in high burnup HTGR fuel - Analysis by Stress3 and Staple codes  
David G. Martin, Kazuhiro SAWA, Shoubei UETA, Junya SUMITA  
May 2001
- 2001-025** Activation cross section measurement at neutron energy from 13.3 to 14.9 MeV using FNS facility  
Yoshimi KASUGAI, Yujiro IKEDA, Yoshitomo UNO, Hiroshi YAMAMOTO, Kiyoshi KAWADE  
March 2001
- 2001-019** Demonstration of quadrature arrangement using  $\text{CsLiB}_6\text{O}_{10}$  Crystals  
Hiromitsu KIRIYAMA, Shinichi MATSUOKA, Fumihiko NAKANO, Koichi YAMAKAWA  
March 2001
- 2001-016** Premoderator optimization of decoupled hydrogen moderator  
Masahide HARADA, Makoto TESHIGAWARA, Tetsuya KAI, Hideaki SAKATA, Noboru WATANABE, Yujiro IKEDA  
March 2001

- 2001-013** Consistent evaluations of (N,2N) and (N, NP) reaction excitation functions for some even-even isotopes using empirical systematics  
Vassily N. MANOHKIN, Naoteru ODANO, Akira HASEGAWA  
March 2001
- 2001-007** Technical feasibility study for the D-T Neutron Monitor using activation of the flowing water  
Yoshitomo UNO, Junichi KANEKO, Takeo NISHITANI, Fujio MAEKAWA, Teruya TANAKA, Yujiro IKEDA, Hiroshi TAKEUCHI  
March 2001
- 2000-067** Modelling of fuel performance and fission product release behavior during HTTR normal operation (A comparative study of the FZJ and JAERI modeling approach)  
Karl VERFONDERN, Junya SUMITA, Shoehei UETA, Kazuhiro SAWA  
March 2001
- 2000-041** OECD/NEA Burnup credit criticality benchmarks phase IIIA: Criticality calculations of  
*NEA/NSC/* BWR spent fuel assemblies in storage and transport  
*DOC(2000)12* Horishi OKUNO, Yoshitaka NAITO, Yoshihira ANDO  
September 2000
- 2000-002** Maxwellian-averaged cross sections calculated from JENDL-3.2  
February 2000  
Tsuneo NAKAGAWA, Satoshi CHIBA, Toshiro OHSAKI and Masayuki IGASHIRA
- 99-077** Computational study of hydration at the Td damaged site of DNA in complex with repair enzyme T4 endonuclease V  
Miroslav PINAK  
February 2000
- 99-062** The JT-60U 2.45 MeV Neutron time-of-flight spectrometer  
Magnus HOEK, Takeo NISHITANI, Hiroyuki TAKAHASHI, Masaharu NAKAZAWA, Thomas ELEVANT, Yasunari SHIBATA  
November 1999
- 99-048** Review of JT-60U experimental results in 1998  
JT-60 Team  
September 1999
- 99-033** Phase diagrams for the binary systems NdCl<sub>3</sub>-LiCl and PrCl<sub>3</sub>-LiCl  
Ik-Soo KIM, Yoshihiro OKAMOTO  
April 1999
- 99-030** Stationary periodic and solitary waves induced in an isotropic plasma by a strong short laser pulse  
Leval N. TSINTSADZA, Kyoji NISHIKAWA, Toshiki TRAJIMA, J.T. MENDONCA  
March 1999
- 99-024** Analogue studies in the Alligator Rivers region - in-situ measurement of Uranium series nuclides with Shrimp  
Tetsushi NAGANO, Tsutomu SATO, Nobuyuki YANASE, Hiroshi ISOBE, Toshikiho OHNUKI, Ian S. WILLIAMS, Mying ZAW, Timothy E. PAYNE, Peter L. AIREY  
March 1999
- 99-020** Neutronics study on the JAERI 5 MW spallation neutron source - neutronic performance of the reference target-moderator-reflector system and the target shape/size effects  
Makoto TESHIGAWARA, Noboru WATANABE, Hiroshi TAKADA, Tetsuya KAI, Hiroshi NAKASHIMA, Tadashi NAGAO, Yuko OYAMA, Yujiro IKEDA, Kassszuaki KOSOKO  
March 1999
- 99-018** An RF input coupler for a superconducting single cell cavity

- Benjamin Fechner, Nobuo OUCHI, Frank KRAWCZYK, Joicxhi KUSANO, Motoharu MIZUMOTO, Ken MUKUGI  
March 1999
- 99-017** Transport studies in boundary and divertor plasmas of JT-6OU  
Akira KUMAGAI  
March 1999
- 99-011** The evaluation fo radiation damage to the target material due to the injection of medium- and high-energy proton  
Hiroshi TAKAHASHI, Xinji CHEN, Toshinobu SASA, Takakazu TAKIZUKA  
March 1999
- 98-074** Molecular dynamics simulations of Deoxyribonucleic acids and repair enzyme T4 endonuclease V  
Morislav PINAK  
January 1999
- 98-068** Hybrid particle-in-cell (pic) simulation of heat transfer and ionization balance in overdense plasmas irradiated by subpicosecond pulse lasers  
Alexei ZHIDKOV, Akira SASAKI  
March 1998
- 98-056** Cross sections for Ion Production in reactions of  $H^+$  with  $D_2$ , effects of vibrational and rotational excited states of  $D_2$ .  
Akira ICHIHARA, Osamu IWAMOTO, Keiichi YOKOYAMA  
September 1998
- 98-049** Design of ITER neutron monitor using micro fission chambers  
Takeo NISHITANI, Larry C. JOHNSON, Katsuyuki EBISAWA, Christ WALKER, Toshiro ANDO and Satoshi KASAI  
August 1998
- 98-045** Estimation of Covariances of  $^{10}B$ ,  $^{11}B$ ,  $^{55}Mn$ ,  $^{240}Pu$  and  $^{241}Pu$  neutron nuclear data in JENDFL-3.2  
Kaiichi SHIBATA, Yutaka NAKAJIMA and Toru MURATA  
August 1998
- 98-044** Analysis on long-term strategy for Radwaste management in China  
Chen HAICHENG  
August 1998
- 98-042** Steady-State and Transient DNB analyses for JAERI passive safety reactor (JPSR) using COBRA-IV-I and RETRAN-02/MOD3 Codes  
Tsutomu OKUBO, Xulun JIANG  
August 1998
- 98-041** RF Control at transient beamloading for High-Duty-Factor LINACS  
Michael A. CHERNOGUBOVSKY, Masayoshi SUGIMOTO  
August 1998
- 98-040** Neutron data evaluation of  $^{238}U$   
V.M. MASLOV, Yu V. PARODZINSKIJ, Akira HASEGAWA, Keiichi SHIBATA  
August 1998
- 98-039** Review of JT-60u experimental results in 1997  
JT-60 Team  
August 1998
- 98-038** Actinide level density parameter systematics

August 1998  
V.M. MOSLOV and Yu V. PORODZINSKIJ

- 98-037** Calculations of activation and radiation shielding of samples irradiated in Dalat reactor using ORIGEN2 and QAD-CGGP2 codes  
July 1998  
Tran Van HUNG
- 98-033** Numerical simulation of runaway electron effect on Plasma facing components  
July 1998  
Koichiro EZATO, Satoshi SUSUKI, Tomoaki KUNUGI, Masato AKIBA
- 98-032** Measurement and theoretical analysis of neutron-induced neutron-emission reactions of  ${}^6\text{Li}$  at 10 to 20 MeV Region  
June 1998  
Masanobu Ibaraki, Mamoru Baba, Shigeo Matsuyama, Satoshi Chiba, Ko Togasaki, Keiichi Shibata, Osamu Iwamoto, Arjan J. Koning, Gerry M. Hale, Mark B. Chadwick
- 98-031** Estimation of longitudinal and transverse dispersivities in the twin lake natural gradient tracer tests  
Seiji Tsakeda, Greg L. Moltyaner  
June 1998
- 97-059** Consistent analysis of collective level structure and neutron interaction data for  ${}^{12}\text{C}$  in the framework of the soft-rotator model  
Efrem Sh. Sukhovitskii, Yuriy V. Porodzinskii, Osamu Iwamoto, Satoshi Chiba  
September 1997
- 97-056** Evaluation of neutron nuclear data for  ${}^{247}\text{Cm}$  and  ${}^{247}\text{Bk}$   
Tsuneo Nakagawa, Liu Tong  
August 1997
- 97-054** Critical heat flux of forces flow boiling in a narrow one-sided heated rectangular flow channel  
Limin Zheng, Tadashi Iguchi, Masatoshi Kureta, Hajima Akimoto  
August 1997
- 97-053** Analysis of the JAERI critical heat flux data base for fusion application  
Jean Boscary, Masanori Araki, Masato Akiba  
August 1997
- 97-045** Study of density fluctuation in L-mode and H-mode plasmas on JFT-2M by microwave reflectometer  
Kouji Shinohara  
August 1997
- 97-030** Preliminary analyses of Li jet flows for the IFMIF target  
Mizuho Ida, Yoshio Kato, Hideo Nakamura, Hiroshi Maekawa  
March 1997
- 97-029** Numerical prediction of local transitional features of turbulent forced gas flows in curcular tubes with strong heating  
Koichiro Ezato A.Mohsen Shehata, Tomoaki Kunugi, Donald M. McEligot  
March 1997
- 97-020** High power millimeter wave transmission through CVD Diamong  
Atsushi Kasug Sakamoto, Koji Tkahashi, Masaki Tsuneoka, Tsuyoshi Imai, Olivier Braz, Manfred Thumm  
Mach 1997

- 97-018** Analysis of divertor asymmetry using a simple five-point model  
Bonuhiko HAYASHI, Tomonori TAKIZUKA, Akiyoshi HATAYAMA, Masatada OGASAWARA  
March 1997
- 97-002** Effect of current imbalance on stability of a cable-in-conduit conductor consisting of chrome-plated strands  
Norikiyo Koizumi, Yoshikazu Takahashi, Masataka Nishi, Takaaki Isono, Hiroshi Tsuji, Michitaka Ono, Takataro Hamajima, Tsutomu Fujioka  
February 1997
- 96-068** Production of sheared flow by means of ICRF heating in Tokamak plasmas  
Caigen Liu, Mitsuru Yamagiwa, Shangjie Qian  
January 1997
- 96-064** Conceptual design of IFMIF accelerator RF systems  
Michael A. Chernogubovsky, Masayoshi Sugimoto  
December 1996
- 96-062** Solution for a window coating problem developed in the JT-60U Thomson scattering system  
Hidetoshi Yoshida, Osamu Naito, Takaki Hatae, Akira Nagashima  
November 1996
- 96-061** JT-60U Thomson scattering system with multiple ruby lasers and high spatial resolution for high electron temperature plasma measurement  
hidetoshi Yoshida, Osamu Naito, Osamu Yamashita, Shigeru Kitamura, Takaki Hatae, Akira Nagashima  
November 1996
- 96-056** Generation of a Wims-D/4 multigroup constants library based on the JENDL-3.2 nuclear data and its validation through some benchmark experiments analysis  
Mafizur Rahman, Hideki Takano  
November 1996
- 96-055** Molecular size distribution of NP(V)-Humate  
Yoshiaki Sakamoto, Seiya Nagao, Tadao Tanaka  
October 1996
- 96-053** Electron beam flue gas treatment - research cooperation among JAERI, IAEA and INCT Department of Radiation Research for Environment and Resources, JAERI  
October 1996
- 96-047** The TEM-accelerators facility at JAERI-Takasaki and its application to materials science  
Hiroaki Abe, Hiroshi Naramoto, Kiichi Hojou, Shigemi Furuno  
September 1996
- 96-043** Development of carbon/carbon composite control rod for HTTR(I) - preparation of elements and their fracture tests  
Motokuni Eto, Shintaro Ishiyama, Hirokazu Ugachi  
August 1996
- 96-042** Evaluation of inductive heating energy of sub-size improved DPC-U conductor by calorimetric method  
Toshinobu Ito, Norikiyo Koizumi, Hiroshi Wakabayashi, Yuushi Miura, Hiroshi Fujisaki, Kunihiro Matsui, Yoshikazu Takahashi, Hiroshi Tsuji  
August 1996
- 96-036** Development of a new lower hybrid antenna module using a poloidal power divider  
Sunao Maebara, Masami Seki, Kazuaki Saganuma, Tsuyoshi Imai, Marc Goniche, Philippe Bibet, Stephane Berio, Jean Brossaud, Guy Rey, Gianfranco Tonon  
July 1996

- 96-030** Systematic study of neutron induced reactions of the actinide nuclei  
V.M. Maslov, Yasuyuki Kikuchi  
June 1996
- 96-025** Performance test of lower hybrid waveguide under long/high-rp power transmission  
Masami Seki, Kenjiro Obara, Sunao Maebara, Yoshitaka Ikeda, Tsuyoshi Imai, Takashi, Nagashima, M. Goniche, J. Brossaud, C. Barral, G. Brerger-by, Ph. Bibet, S. Poli, G. Rey, G. Tonon  
June 1996
- 96-023** Extremely fast vertical displacement event induced by a plasma  $\beta_p$  collapse in high  $\beta_p$  Tokamak disruptions  
Yukiharu Nakamura, Ryuji Yoshino, Neil Pomphrey, Stephen C. Jardin  
May 1996
- 96-022** Slug flow transitions in horizontal gas/liquid two-phase flows (dependence on channel height and system pressure for air/water and steam/water two-phase flows)  
Hideo Nakamura  
May 1996
- 96-018** Review of JT-60U experimental results from February to October, 1995  
March 1996  
JT-60 Team
- 96-017** Characteristics of a superconducting magnet using a persistent current for a 110 GHz Gyrotron  
Sunao MAEBARA, Atsushi KASUGAI, Keishi SAKAMOTO, Masaki TSUNEOKA, Tsuyoshi IMAI  
March 1996
- 96-016** The Biaxial strength and fracture criteria for HTGR graphites  
Motokuni ETO, Shintaro ISHIYAMA, T.D. BURCHELL, G.T. YAHR  
March 1996
- 96-012** Production of Acetic Acid from Ethanol solution by *Acetobactor acetigenum* and effect of gamma-ray irradiation on the bacteria  
Jenny M. UMAR, Shinpei MATSUHASHI, Shoji HASHIMOTO  
March 1996
- 96-006** Study of fast wave current drive in a KT-2 Tokamak Plasma  
Bong G. HONG, Kiyotaka HAMAMATSU  
February 1996
- 96-005** Effect of ION  $\nabla B$  Drift direction on ripple-induced fast ion loss in JT-60u  
Mitsutaka ISOBE, Kenji TOBITA, Takeo NISHITANI, Yoshinori KUSAMA, Mamiko SASAO  
February 1996
- 96-003** OECD/NEA Burnup credit criticality benchmark - Result of phase IIA (NEA/NSC/DOC(96)01  
February 1996  
Makoto TAKNO, Hiroshi OKUNO
- 95-089** Numerical prediction of turbulent heat transfer augmentation in an annular fuel channel with two-dimensional square ribs  
Kazuyuki TAKASE  
January 1996
- 95-088** Oxidation characteristics of Oxide dispersion strengthened (ODS) alloy  
Tomio SUZUKI, Katsutoshi WATANABE, Masami SHINDO

January 1996

- 95-087** Behaviour of irradiated PWR fuel under a simulated RIA condition [Results of NSRR Test MH-3]  
Hideo SASAJIMA, Toyoshi RUKETA, Yukihide MORI, Kiyomi ISHIJIMA, Shinsho KOBAYASHI, Takeshi YAMAHARA, Tomohide SUKEGAWA, Tadaharu ITO  
December 1995
- 95-081** Compilation report of VHTRC temperature coefficient benchmark calculations  
Hideshi YASUDA, Tsuyoshi YAMANE  
November 1995
- 95-080** Experimental data report for test TS-5 reactivity initiated accident test in the NSRR with pre-irradiated BWR fuel rod  
Takehiko NAKAMURA, Makie YOSHINIGA, Hiyomi ISHIJIMA, Shinsho KOBAYASHI, Takeshi YAMAHARA, Tomohide SUKEGAWA, Tadaharu ITO  
November 1995
- 95-079** Study of density limit in JT-60 Joule heated plasmas  
Hiroshi SHIRAI, Katsuhiko SHIMIZU, Tomonori TAKIZUKE, Toshio HIRAYAMA, Masafumi AZUMI  
November 1995
- 95-078** Behavior of pre-irradiated fuel under a simulated RIA condition [results of NSRR test JM-3]  
Toyoshi Fuketa, Hideo Sasajima, Yukihide Mori, Kozo Homma, Sadamitsu Tanzawa, Kiyomi Ishijima, Shinsho Kobayashi, Hiroshi Kamata, Haruyuki Sakai  
November 1995
- 95-075** Recent results of H-mode confinement study in JT-60U (April-September 1995)  
JT-60U H-mode Study Group  
November 1995
- 95-073** Dicentric yields induced in rabbit blood lymphocytes by low doses of  $^{252}\text{Cf}$  neutrons  
Yoshinori Inoue  
November 1995
- 95-070** Physics design of an ICRF system for ITER  
Haruyuki Kimura, Tsuneyuki Fujii, Atsushi Fukuyama, Mikio Saigusa, Shinichi Moriyama, Kiyotaka Hamamatsu  
November 1995
- 95-069** The aqueous solubility and speciation analysis for Uranium, Neptunium and Selenium by the geochemical code (Eq3/6)  
Seiji Takeda, Shigeki Shima, Hideo Kimura, Hideo Matsuzuru  
November 1995
- 95-068** Uncertainties in evaluated total cross-section data for 14 nuclides contained in JENDL-3.2  
Masahiro NAKAMURA, Keiichi SHIBATA  
October 1995
- 95-067** Evaluation of nuclear data of  $^{244}\text{Pu}$  and  $^{237}\text{Pu}$   
Tsuneo NAKAGAWA, Valentin A. KONSHIN  
October 1995
- 95-065** Stability of toroidal alfvén eigenmode in JT-60 super upgrade  
Takahisa Ozeki, Chio Z. Cheng, Keisuke Nagashima  
October 1995
- 95-039** Dicentric yields induced in rabbit blood lymphocytes after exposure in vitro to X-rays  
Yoshinori INOUE

June 1995

- 95-036** Calculations of neutron and proton induced reaction cross sections for actinides in the energy region from 10 MeV to 1 GeB  
Valentin A. Konshin  
June 1995
- 95-034** TSTA/FCU-JFCU Tritium experiment on breeding blanket interface under the collaboration of JAERI-US/DOE (Extended annex IV) - March 1993  
Mikio ENOEDA, Toshihiko YAMANISHI, Masayuki YAMADA, Satoshi KONISHI, Kenji OKUNO, Richard S. Willms, David TAYLOR, Wallace HARBIN, John R. BARTLIT, James L. ANDERSON  
May 1995
- 95-023** Development of fuel CO<sub>2</sub> laser interferometer for large Tokamak  
Yasunori KAWANO, Akira NAGASHIMA, Takaki HATAE, Soichi FUNJI  
March 1995
- 95-013** Behavior of pre-irradiated fuel under a simulated RIA condition (results of NSRR Test JM-4)  
Toyoshi FUKETA, Yukihiko MORI, Hideo SASJIMA, Kozo HOMMA, Sadamitsu TANZAWA, Kiyomi ISHIJIMA, Shinsho KOBAYASHI, Teruo KIKUCHI, Haruyuki SAKAI  
March 1995
- 95-010** Consistent calculations of fast neutron induced fission, (n,2n) and (n,3n) cross sections for 71 isotopes of Th, Pa, U, Np, Pu, Am, Cm, Bk and Cf  
Valentin A. KONSHIN  
February 1995
- 95-002** The effect of blood sample positions in a water phantom at the time of irradiation on the dicentric yield  
Yoshinori INOUE  
January 1995
- 94-045** An analysis of energy strategies for CO<sub>2</sub> emission reduction in China - Case studies by Markal Model  
Guangya LI  
December 1994
- 94-044** Bulk shielding experiments on large SS316 assemblies bombarded by D-T neutrons. Volume II: Analysis  
Fujio MAEKAWA, Chikara KONNO, Kazuaki KOSAKO, Yukio OYAMA, Yujiro IKEDA, Hiroshi MAEKAWA  
December 1994
- 94-043** Bulk shielding experiments on large SS316 assemblies bombarded by D-T neutrons. Volume I: Experiment  
Chikara KONNO, Fujio MAEKAWA, Yukio OYAMA, Yujiro IKEDA, Kazuaki KOSAKO, Hiroshi MAEKAWA  
December 1994
- 94-042** A new method of extracting tritium produced in neutron-irradiated lithium-containing pelfor liquid scintillation counting  
Yuriy VERZILOV, Fujio MAEKAWA, Yukio OYAMA, Hiroshi MAEKAWA  
December 1994
- 94-037** A transport model of Ohmically heated Tokamaks - "Profile Consistency" Revisited  
Hiroshi AIKAWA  
November 1994

- 94-036** Direct measurement of MeV-range atomic hydrogen using a charge-exchange neutral particle analyzer in ICRF-heated JT-6OU plasmas  
Yoshinori KUSAMA, Valeri I. AFANASSIEV, Serguei Y. PETROV, Masahiro NEMOTO, Haruyuki KIMURA, Atsuhiko MORIOKA, Minoru SATOH, Yoshimitsu TSUKAHARA, Mikio SAIGUSA, Takashi KONDOH, Shin-ichi MORIYAMA, Tsuneyuki FUJII, Stanislav S. KOZLOVSKIJ, Anatoli I. KISLYAKOV, Michail P. PETROV, Takeo NISHITANI, Kenkichi USHIGUSA  
October 1994
- 94-034** Numerical prediction on turbulent heat transfer of a spacer ribbed fuel rod for high temperature gas-cooled reactors  
Kazuyuki TAKASE  
November 1994
- 94-033** Analysis of high energy ion ripple loss in the up-down asymmetric configuration by OFMC plus mapping hybrid code  
Sergie KONOVALOV, Tomonori TAKIZUKA, Keiji TANI, Kiyotaka HAMAMATSU, Masafumi AZUMI  
November 1994
- 94-030** Stability analysis of ITER plasmas with H-mode profiles  
Shinji TOKUDA, Takahisa OZEKI  
November 1994
- 94-024** Formation of fine solid particles from aqueous solutions of sodium chloropalladate by gamma-ray irradiation  
Motoyoshi HATADA, Iwao FUJITA, Kei-ichi KOREKAWA  
October 1994
- 94-015** Irradiation experiments of low copper A533B steels for reactor pressure vessel tested in JMTR  
Masahide SUZUKI, Kunio ONIZAWA, Minoru KIZAKI  
September 1994
- 94-013** Stability analysis of external Kink mode for Iter L-Mode Profile Plasmas  
Shinji TOKUDA, Takahisa OZEKI  
September 1994
- 94-011** Design concept of a cryogenic distillation column cascade for a ITER scale fusion reactor  
Toshihiko YAMANISHI, Mikio ENOEDA, Kenji OKUNO  
July 1994
- 94-008** Thermal durability of modified Synroc material as reactor fuel matrix  
Akira KIKUCHI, Hiroyuki KANAZAWA, Yoshihiro TOGASHI, Seiichiro MATUMOTO, Yasuharu NISHINO, Isao OHWADA, Masahito NAKATA, Hidetoshi AMANO, Hisdayoshi MITAMURA  
August 1994
- 94-007** 3-D thermal stress analysis of hot spots in reactor piping using BEM  
Raghat S. BAINS, Jun SUGIMOTO  
August 1994
- 94-007** Design study of prototype accelerator and MeV test facility for demonstration of 1 MeV, 1 A negative ion beam production  
Takashi INOUE, Masaya HANADA, Shuichi MAENO, Kenji MIYAMOTO, Yoshihiro OHARA, Yoshikazu OKUMURA, Kazuhiro WATANABE  
August 1994
- 94-006** Behavior of pre-irradiated fuel under a simulated RIA condition [results of NSRR test JM-3]

Toyoshi FUKETA, Hideo SASAJIMA, Yukihide MORI, Kozo HOMMA, Sadamitsu TANZAWA, Kiyomi ISHIJIMA, Toshio FUJISHIRO, Shinsho KOBAYASHI, Teruo KIKUCHI, Haruyuki SAKAI  
July 1994

- 94-002** Development of Bermuda: A radiation transport code system part III - a one-dimensional adjoint neutron transport code  
Tomoo SUZUKI, Akira HASEGAWA, Shun-ichi TANAKA, Hiroshi NAKAHIMA  
July 1994
- 94-001** Transport studies of Tokamak Plasmas in JT-60 device  
Hiroshi SHIRAI  
August 1994