

LIST OF DT PAPERS FOR PUBLICATION

TFTR

Adler, H.G.

Luminescence and Transmission Measurements on Fibers Exposed to High Neutron Fluxes

Rev. Sci. Instrum **66**, 904-906 (1995).

Anderson, J.L.

Tritium Handling Experience at TFTR

to be published in the Proceedings of the 15th International Atomic Energy Agency Conference on Plasma Physics and Controlled Nuclear Fusion Research 1994 (September 26-October 1, 1994, Seville, Spain) to be published by IAEA, Vienna, 1995, paper IAEA-CN-60/F-2-II-1

Artun, M. et al.

Trapped Ion Mode in Toroidally Rotating Plasmas

Princeton University, Plasma Physics Laboratory Report PPPL-3093
Phys. of Plasmas **2**, (9) 1995, p3384.

Barnes, Cris W.

Measurements of DT and DD Neutron Yields by Neutron Activation on TFTR

Presented at the Tenth Topical Conference on High Temperature Plasma Diagnostic Conference, Rochester, NY 8-12 May, 1994. (from cbarnes)

Barnes, Cris W., S.D. Scott, M.G. Bell, et al.

Confinement Analysis in Low-confinement -Mode of Hydrogen Isotope Experiments on the TFTR

Phys. Plasmas **3** (12), Dec 1996, p4521. **rec 15Apr: acc 18Sep 96. PPPL -3202

Barnes, C.W., et al.

Triton Burnup Measurements and Calculations on TFTR 9/11 still not published per cbarnes
accepted for publication in NF (1996) PPPL-3107 (June 1995)

Barnes, C.W., A.R. Larson, and A.L. Roquemore

Calculations and neutron Activation Response for the Tokamak Fusion Test Reactor and Absolute Calibrations of Neutron Yield

Fusion Technology, **30**(63-72) Sept 1996.

Batha, S. H. et al.

Supershot Performance with Reverse Magnetic Shear in TFTR

Proceedings of the 22nd EPS Conference, 3-7 July 1995, Bournemouth, UK: (accepted)

Batha, S. H. et al.

Experimental Study of Toroidicity-Induced Alfvén Eigenmode (TAE) Stability at High $q(0)$

Fourth IAEA Technical Committee Meeting and Joint US-Japan Workshop on Alpha Particles in Fusion Research, Princeton, NJ, April 25-28, 1995.
Nucl. Fusion **35**, 1463 (1995); PPPL-3120

Batha, S. H. et al.

Sensitivity of equilibrium reconstruction to motional-Stark-effect measurements

accepted to Nuclear Fusion (2/22/96) ; PPPL-3127

Batha, S. H., F.M. Levinton, A.T. Ramsey, G.L. Schmidt, M.C. Zarnstorff

Local test of parallel electrical resistivity in the Tokamak Fusion Test Reactor

Phys. Plasmas **4**(10), 3614 (1997). rec Jan 27, acc Jun 30.

Baylor, L.R., GL Schmidt, SH Batha, et al.

Pellet Fuelled Enhanced Confinement ICRH Discharges in TFTR
to Nucl. Fusion 4/1/96 (not DT)

Bell, M.G., et al.

Fusion Power Production in TFTR

in Plasma Physics and Controlled Nuclear Fusion Research 1995 (Proc. 15th Int. Conf. Seville, Spain, 1994), IAEA, Vienna, 1995, Vol. I, p.171.

Bell, M.G., et al.

Overview of DT Results from TFTR

Fourth IAEA Technical Committee Meeting and Joint US-Japan Workshop on Alpha Particles in Fusion Research, Princeton, NJ, April 25-28, 1995.

Nucl. Fusion **35** (No 12), 1429 (1995). PPPL-3146 (Oct 1995)

Bell, M.G., S. Batha, M. Beer, et al.

Deuterium-tritium plasmas in novel regimes in the Tokamak Fusion Test Reactor

to be published in Phys. Plasmas. sub. 11/13, 1997, accepted 1/15/97. APS Invited Talk.

Phys. Plasmas **4** (5), (1997) 1714, special issue PPPL Report-3230.

Bretz, N.L., et al.

Deuterium-Tritium Experiments in TFTR

Invited talk in the Proceedings of the 1994 International Conference on Plasma Physics, Iguacu, Brazil (Oct. 1994); Proceedings of the 1994 International Conference on Plasma Physics, Iguacu, Brazil (Oct. 1994), per nbretz 9/16/97

Bretz, N.L., et al.

Diagnostic Instrumentation for Microturbulence in Tokamaks

Review of Scientific Instruments, **68**, Pages 2927 - 2964, August 1997.

***Budny, R.V.**

Isotopic Mass and Alpha Heating Effects in TFTR D-T Plasmas

21 European Physical Soc Mtg PPDIV. Montpellier, France, 6/27-7/1, 1994 Proceedings of 21st EPS Conf. on Control. Fusion & Plasma Phys. PPPL Report -3015, July 1994.

Budny, R.V.

Simulations of Alpha Parameters in a TFTR DT Supershot with High Fusion Power

Princeton Plasma Physics Laboratory Report PPPL-3112

Nucl. Fusion **35** 1497 (1995).

Budny, R.V.

A Standard DT Supershot Simulation

Nuclear Fusion **34**, No. 9 (1994)

Budny, R.V., et al.

Tritium Recycling and Transport in TFTR Discharges with Deuterium Neutral Beam Injection

presented at Plasma Surface Interactions (PSI) Conf. Saint Raphael, France, May 20-25, 1996.

to be submitted to Phys. Plasmas 8th Jan 1997 and PPPL Report as "Tritium Influx and Transport in in Tokamak Fusion Test Reactor Plasmas with Deuterium Neutral Beam Injection".

***Budny, R.V**

TRANSP Analysis of High Fusion Power TFTR DT Supershots

Draft Princeton Plasma Physics Laboratory Report PPPL-3039

to be submitted to Phys. of Plasmas in Spring 1997.

Budny, R.V., et al.

TRANSP simulations of International Thermonuclear Experimental Reactor plasmas

Budny, R.V., et al.

Occurrence of sawteeth in ITER and thier effects on alpha particles and stability.

in Proceedings 23rd EPS Conf. on Controlled Fusion and Plasma Physics, Kiev (EPS, Petit-Lancy, 1996)
Vol. 1, pp.55-58.

Bush, C.E, et al.

Improvements in the CHERS system for DT Experiments on TFTR

Presented at the Tenth Topical Conference on High Temperature Plasma Diagnostic
Conference, Rochester, NY 8-12 May, 1994, Rev. Sci. Instrum. **66**, p. 1193, February 1995.

Bush, C.E., et al.

**Deuterium-tritium high confinement (H-mode) studies in the Tokamak
Fusion Test Reactor**

presented at 36th APS Mtg. Minn., MN, Nov 7-11, 1994 (talk)
Phys. Plasmas **2**(6) 1995 p.2366.

Bush, C.E. et al.

Initial H-mode Experiments in DT Plasmas on TFTR

published in Proceedings of the 21st European Conference on Controlled Fusion and Plasma Physics,
Montpellier, France (1994), Vol. 18B, Pt **1**, p.354.

Bush, C.E. et al.

Toroidal Velocity Profiles and Core Transport in DT Plasmas in TFTR

Presented at the 1995 International Sherwood Fusion Theory Conference at Lake Tahoe, NV,
April 3-5, 1995.

Caorlin, M., et al.

A Tritium Vessel Cleanup Experiment in TFTR

published in the Proceedings of the 21 European Physical Soc Mtg PPDIV.
Montpellier, France, 6/27-7/1, 1994

Cauffman, S., et al.

Alfvenic Behavior of Alpha Particle Ion Cyclotron Emission in TFTR

Fourth IAEA Technical Committee Meeting and Joint US-Japan Workshop on Alpha Particles in
Fusion Research, Princeton, NJ, April 25-28, 1995. Nucl. Fusion **35**, 1597 (1995).

Cauffman, S., et al.

Observations of Ion Cyclotron Emission from Charged Fusion Products in TFTR

Proceedings of the 22nd EPS Conference, 3-7 July 1995, Bournemouth, UK to be published

Cauffman, S., et al.

**An Interpretation of Ion Cyclotron Emission from Sub-Alfvenic Fusion Products
in the Tokamak Fusion Test Reactor**

submitted to Phys of Plasmas

Chang, Z., et al.

**Observation of Nonlinear Neoclassical Pressure-Gradient-Driven Tearing
Modes on TFTR**

Phys. Rev. Letters **74**, 23 (1995) 4663.

Chang, Z., et al.

Alfven Frequency Modes at the Edge of TFTR Plasmas

Nucl. Fusion **35**(No.12), 1469 (1995). PPPL-3115.

Chang, Z., et al.

First Observation of Alpha Particle Loss Induced by Kinetic Ballooning Modes in TFTR DT Experiments

Phys. Rev. Lett. **76**, 1071 (1996).

Chang, Z., W Park, ED Fredrickson, et al.

Off-axis Sawteeth and Double-tearing Reconnection in Reversed Magnetic Shear Plasmas in TFTR

Phys. Rev. Lett. **77**, 3553 (1996), 21Oct96, and PPPL Report-

Chang, Z., et al.

Transport Effects of Low (m,n) MHD Modes on TFTR Supershots

Nucl. Fusion **34** (1994) 1309.

Chang, Z., R. Nazikian, G.-Y Fu, et al.

Alpha-driven magnetohydrodynamic (MHD) and MHD-induced alpha loss in TFTR

Phys. Plasmas **4**(5) 1610 (1997). rec 11/11/96, acc 12/9/96 APS Invited Talk. PPPL-3231

Cheng, C.Z., et al.

Energetic/Alpha Particle Effects on MHD Modes and Transport

Princeton University, Plasma Physics Laboratory Report PPPL-3033

to be published in the Proceedings of the 15th International Atomic Energy Agency Conference on Plasma Physics and Controlled Nuclear Fusion Research 1994 (September 26-October 1, 1994, Seville, Spain) to be published by IAEA, Vienna, 1995, IAEA-CN-60/D-3-III-2.

Chong, G. P. University of Toronto, et al.

DT Results of TFTR's Alpha Collector Probe*

Fourth IAEA Technical Committee Meeting and Joint US-Japan Workshop on Alpha Particles in Fusion Research, PPPL, Apr 1995 to be submitted to Nucl. Fusion, 1995.

Darrow, D.S., et al.

Measurement of Loss of DT Fusion Products Using Scintillator Detectors in TFTR

Presented at the Tenth Topical Conference on High Temperature Plasma Diagnostic, Rochester, NY 8-12 May, 1994., Rev. Sci. Instrum. **66**, 476-482 (1995).

Darrow, D.S., et al.

Enhanced Loss of Fast Ions During Mode Conversion Ion Bernstein Wave Heating in TFTR

Nucl. Fusion **36**(4) 509 (1996). submit in Dec 1995.

Darrow, D.S., S. Zweben, et al.

Observations of Neutral Beam and ICRF Tail Ion Losses Due to Alfvén Modes in TFTR

Nucl. Fusion **37**(7) 939-954(1997). sub 1/31/96. PPPL Report-3181 April 96.

Darrow, D.S. et al.

Enhanced Loss of Fusion Products during the Mode Conversion Heating in TFTR

11th Topical Conference on Radio Frequency Power in Plasmas, Palm Springs, CA, May 17-19, 1995, AIP Conference Proceedings 355 p. 67, (1996). PPPL-3116 (July 1995)

Darrow, D.S., et al.

Alpha particle losses from Tokamak Fusion Test Reactor deuterium-tritium plasmas

Phys. Plasmas **3**, 1875 (May 1996).

Darrow, D.S., S.J. Zweben, and H.W. Herrmann

Alpha particle loss diagnostics in TFTR and Tokamak reactors

Fusion Engineering and Design **34-35** (1997) 53-58.

Dendy, R.O., et al.

Ion cyclotron emission due to collective instability of fusion products and beam ions in TFTR and JET

Nucl. Fusion 35(12) 1733 (1995).

Duong, H.H., RK Fisher, SS Medley, et al.

The Effects of Toroidal Field Ripple on Confined Alphas in TFTR DT Plasmas

Nucl. Fusion **37**(2), 271 (1997). submit in Dec 95. PPPL Report - 3178, May 95.

Efthimion, P., et al.

Tritium Transport, Influx, and Helium Ash Measurements on TFTR During DT Operation

in Plasma Physics and Controlled Nuclear Fusion Research 1995 (Proc. 15th Int. Conf. Seville, Spain, 1994), IAEA, Vienna, 1995, Vol. 1, p.289.

Efthimion, Phillip, et al.

Tritium Particle Transport Experiments on TFTR During D-T Operation

Phys. Rev. Lett. **75**, 85 (1995).

*****Evenson, H.T., R.J. Fonck, S.F. Paul, S.D. Scott, MC. Zarnstorff**

Measurement of Local Ion Diffusive Coefficients in the Tokamak Fusion Test Reactor

submitted to NF Letters ~ 2/13/97

Fisch, N.J.

Alpha power channeling using ion-Bernstein waves

Phys. Plasmas **2**(6) 1995, pp2375-2380.

Fisch, N.J., et al.

Alpha Power Channeling with Two Waves

Fourth IAEA Technical Committee Meeting and Joint US-Japan Workshop on Alpha Particles in Fusion Research, Princeton, NJ, April 25-28, 1995.

Nucl. Fusion **35**, 1753 (1995).

Fisch, N.J.

Interaction of Energetic Alpha Particles with Intense Lower Hybrid Waves

Phys. Rev. Lett. **69**, 612 (1992).

Fisch, N.J. et al.

Possibility of Using Ion-Bernstein Waves for Alpha Power Extraction in Tokamaks

in the Proceedings of 21st EPS Mtg. of PPD, June 27-July 1, 1994, Montpellier, France.

Fisch, N.J., MC Herrmann, DS Darrow, HP Furth, et al.

Prospects for Alpha Channeling: Initial Results from TFTR

16th IAEA Fusion Energy Conference, Montreal, Canada, 7-11 October 1996 (CN-64/A2-3).

Fisher, R., et al.

Measurements of Fast Confined Alphas on TFTR

Phys. Rev. Lett. **75**, 846 (1995).

Fonck, R.J.

Plasma Turbulence and Associated Transport in TFTR D-D and D-T Discharges

in the Proceedings of the 15th International Atomic Energy Agency Conference on Plasma Physics and Controlled Nuclear Fusion Research 1994 (September 26-October 1, 1994, Seville, Spain) to be published by IAEA, Vienna, 1995, paper IAEA-CN-60/A2/4-P-7.

Fredrickson, E.D., et al.

Coherent Fluctuations in the Initial TFTR D-T Experiments

in the proceedings 21 European Physical Soc Mtg PPDiv. Montpellier, France, 6/27-7/1, 1994.

Fredrickson, E.D.

TAE Modes and MHD Activity in TFTR DT Plasmas

to be published in the Proceedings of the 15th International Atomic Energy Agency Conference on Plasma Physics and Controlled Nuclear Fusion Research 1994 (September 26-October 1, 1994, Seville, Spain) to be published by IAEA, Vienna, 1995, paper IAEA-CN-60/A-2-II-5.

Fredrickson, E.D.

Advances in Theoretical Understanding of Disruptions and MHD in DT Plasmas

Proceedings of the 22nd EPS Conference, 3-7 July 1995, Bournemouth, UK to be published

Fredrickson, E.D. et al.

Observation of New Branch of Toroidal Alfvén Eigenmodes in TFTR

Nucl. Fusion **35**, 1457 (1995).

PPPL Report-3137.

Fredrickson, E.D., et al.

Beta Limit Disruptions in the Tokamak Fusion Test Reactor

Phys. Plasma **2**, 4216 (1995), PPPL Report 3023 Nov. 1994.

Fredrickson, E.D., et al.

Ballooning Instability Precursors to High Beta Disruptions on TFTR

Phys. of Plasmas **3**(7), 2620 (1996).

The stability of advanced operational regimes on the Tokamak Fusion Test Reactor

Phys. Plasmas **4**(5) 1589 (1997). rec 11/11/96 acc 1/29/97

Fu, G. Y.

Existence of Core Localized Toroidicity-Induced Alfvén Eigenmode

Princeton University, Plasma Physics Laboratory Report PPPL-3049

Phys. Plasmas **2** (4), April 1995.

Fu, G.Y., et al.

Nonlinear Hybrid Simulation of the Toroidicity-Induced Alfvén Eigenmode

Phys. Rev. Lett. **74**, 1594 (1995).

Fu, G. Y., et al.

Stability Analysis of Toroidicity-Induced Alfvén Eigenmodes in TFTR DT Experiments

Phys. Rev. Lett. **75**, 2336 (1995). PPPL Report-3110

Fu, G.Y., Y. Chen, R. Budny, et al.

Recent Progress in Linear and Nonlinear Studies of Toroidal Alfvén Eigenmode

16th IAEA Fusion Energy Conference, Montreal, Canada, 7-11 October 1996, (F1-CN-64/D2-6).

Goloborod'ko, V., et al.

Fokker-Planck 3D Modelling of Axisymmetric Collisional Losses of Fusion Products in TFTR

Nucl. Fusion **35**, 1523 (1995).

Gorelenkov, N.N., et al.

Alfvén cyclotron instability and ion cyclotron emission

Fourth IAEA Technical Committee Meeting and Alpha Particle Workshop, April 25-28, 1995, PPPL.

Nucl. Fusion **35**, 1743 (1995).

Gorelenkov, N.N., et al.

Excitation of Alfvén cyclotron instability by charged fusion products in tokamaks

Phys. Plasmas, **5**(2), 1961 (1995).

Gorelenkov, N.N., et al.

Modeling of alpha-particle redistribution by sawteeth in TFTR using FPPT Code

submitted to Nuclear Fusion 31 May 96 and accepted for pub as of 3/24/97, date uncertain.

Hahm, T.S., M. Artun, MA Beer, et al.

Turbulence and Transport in Enhanced Confinement Regimes of Tokamaks: Simulation and Theory

16th IAEA Fusion Energy Conference, Montreal, Canada, 7-11 October 1996 (F1-CN-64/D1-2).

Hawryluk, R.J. et al.

Confinement and Heating of a Deuterium-Tritium Plasma on the TFTR

Phys. Rev. Lett. **72**, 3530, (1994). PPPL-2977 MAR 1994

Hawryluk, R.J., et al.

Preparations for deuterium-tritium experiments on the Tokamak Fusion Test Reactor

Phys. Plasmas **1**, 1560 (1994).

Hawryluk, R.J., et al.

Review of Recent D-T Experiments from TFTR

in the Proceedings of the 15th International Atomic Energy Agency Conference on Plasma Physics and Controlled Nuclear Fusion Research 1994 (September 26-October 1, 1994, Seville, Spain) IAEA, Vienna, 1995, paper IAEA-CN-60/A1-1. PPPL-3037(Jan 95)

Hawryluk, R.J., et al.

Review of Deuterium-Tritium Results from TFTR

presented at ANS 12th Topical Mtg on the Technology of Fusion Energy, Reno Hilton, Reno, Nevada, June 16-20, 1996, invited paper. Submitted to ANS 6/17/96, accepted 7/30/96, revised 9/6/96. PPPL-3197

Hawryluk, R.J.

Results from Deuterium-Tritium Tokamak Confinement Experiments

submitted to Rev. of Modern Physics 1/9/97, PPPL-3234, February 1997,

Heidbrink, W.W., Batha, SH et al.

Search for Alpha-Driven BAE s in TFTR

Nuclear Fusion **36**(12), 1725 (1996). Submitted 3/9/96, accepted to NF 6/18/96
PPPL Report 3179.

Herrmann, H. et al.

Two New Escaping Alpha Particle Detectors,

IEA Workshop on Alpha Physics and Tritium Issues in Large Tokamaks, PPPL, Nov 1993

Herrmann, H. W., et al.

Foil Deposition Alpha Collector Probe for TFTR's D-T Phase

Rev. Sci. Instrum. **66**, 351 (1994).

H. W. Herrmann, S. J. Zweben, D. S. Darrow, et al.

DT Results Of TFTR's Alpha Collector

to appear in Nucl. Fusion March 1997 issue. PPPL Report-3214, sub to NF, May 30, 1996.

Hill, K.W., et al.

Analysis of Nuclear-Radiation-Induced Noise in Spectroscopic and X-Ray Diagnostics During High Power Deuterium-Tritium Experiments on the Tokamak Fusion Test Reactor

Rev. Sci. Instrum. **66**, 913-915 (January 1995).

Hsu, C.T., et al.

Particle Dynamics in Chirped-Frequency Fluctuations

Phys. Rev. Lett. **72**, 2503 (1994).

Hill, K, et al.

**Luminescence and Transmission Measurements on Fibers
Exposed to High Neutron Fluxes**

Rev. Sci. Instrum. **66**, 904-906 (January 1995)

Hosea, J., et al.

Deuterium-Tritium Experiments on the Tokamak Fusion Test Reactor

11th Topical Meeting on Technology of Fusion Energy, New Orleans, June 19-23, 1994, American Nuclear Society (invited paper).

Fusion Technology **26** (3pt.2), 389-98 (Nov 1994). PPPL Report-3013

Janos, A., et al.

Measurement of Limiter Heating due to Alpha Particle Losses during High Fusion Power Deuterium-Tritium Operation of the TFTR Tokamak,

PPPL-3056 (March 1995) 20 pp.

Tenth Topical Conference on High Temperature Plasma Diagnostics, May, 8-12, 1994, Rochester, New York; Rev. Sci. Instrum. **66** (1), January 1995, 354-356.

Janos, A., et al.

Operation of Two Grating Polychromators on TFTR and New Observations of Magnetohydrodynamic Phenomena

Tenth Topical Conference on High Temperature Plasma Diagnostics, May, 1994, Rochester, New York; Rev. Sci. Instrum. **66** (1), January 1995, 668-670.

Janos, A., et al.

Characterization of Alpha Loss during Disruptions in TFTR during Deuterium-Tritium Operation,

Fourth IAEA Technical Committee Meeting and Joint US-Japan Workshop on Alpha Particles in Fusion Research, Princeton, NJ, April 25-28, 1995.

Nucl. Fusion **36**(4) 475 (1996).

Janos, A., K. McGuire, E. Fredrickson, et al.

Bursts of electron cyclotron emission during disruptions of high beta discharges in the Tokamak Fusion Test Reactor tokamak

Rev. Sci. Instrum **68**(1), Jan 1997, pp. 505-508.

Jassby, D.L., et al.

Absolute Calibration of TFTR Neutron Detectors for D-T Plasma Operation

Presented at 10th Topical Conf. on High-Temp. Plasma Diagnostics, 8-12 May, 1994, Rochester, NY.

Rev. Sci. Instrum. **66**, 891 (January 1995).

Jassby, D.L., JD Strachan, MG Bell, et al.

TFTR Experiments with 2% Tritium Beam Fueling

submitted to Nucl. Fusion (1995). on 1/14/97 is in process of revision to resubmit to NF. PPPL-3205

Johnson, D., et al.

Recent D-T Results on TFTR

presented at the 22nd EPS Conference for Controlled Fus. and Plasma Phys. 2-7 July, 1995, Bournemouth, UK. (invited paper)

Plasma Phys. Control Fusion **37** (1995) A69-A85.

Johnson, L.C., et al.

Tritium Transport Studies on TFTR

21 European Physical Soc Mtg PDiv. Montpellier, France, 6/27-7/1, 1994

Johnson, L.C.

Cross-Calibration of Neutron Detectors for Deuterium-Tritium Operation in TFTR

Presented at the Tenth Topical Conference on High Temperature Plasma Diagnostic Conference, Rochester, NY 8-12 May, 1994. PPPL Report-3064.

Kelly, J.P. et al.

Tritium Inventory in the Neutral Beam Box of TFTR

Masters Thesis, University of Illinois

Kim, J.S.,M. Zarnstorff

Measurements of Nonlinear Energy Transfer in Turbulence in the Tokamak Fusion Test Reactor
Phys. Rev. Lett. **79** (5) 841 (1997).

Kissick, M.W., JD Callen, ED Fredrickson, et al.

Non-Local Component of Electron Heat Transport in TFTR

Nucl. Fusion, **36**(12) 1691 (1996). rec 29 Jan, 96, accepted 29 May, 96.

Kruger, S.E. (U Wisconsin), R.V.Budny, et al.

Investigations of Tritium Recycling in TFTR using the DT Neutron Rate

Nucl. Fusion, **36**, No. 8 (1996).

Kumar, A., HW Kugel, and G Ascione

Deuterium-Tritium Neutron Activation Experiments at TFTR (CN64/GP-6)
16th IAEA Fusion Energy Conference, Montreal, Canada, 7-11 October 1996.

LeBlanc, B., et al.,

Prospect of TFTR Supershot Optimization by IBWH

11th Topical Conference on Radio Frequency Power in Plasmas, Palm Springs, CA,
May 17-19, 1995, AIP Conference Proceedings 355 p. 483, (1996).

Lee, W. W. and R. Santoro

Gyrokinetic Simulation of Isotope Scaling in Tokamak Plasmas

Phys. Fluids **4**, 169 (January 1997). Submitted 11/29/95, accepted 10/16/1996., PPPL-3123

Levinton, F.M., et al.

Improved Confinement with Reversed Magnetic Shear in TFTR

Phys. Rev. Lett. **75**, 4417 (1995). PPPL-3117(July 1995)

Levinton, F.M., et al.

Stabilization and Onset of Sawteeth in TFTR

Phys. Rev. Lett. **72**, (1994) 2895. PPPL-2968 (March 1994).

Levinton, F.M., SH Batha, MA Beer, et al.

Transport Physics in Reversed Shear Plasmas
16th IAEA Fusion Energy Conference, Montreal, Canada, 7-11 October 1996. (N-64/A1-3)

Lin, Z., WM Tang, and WW Lee, et al.

Neoclassical Transport in Enhanced Confinement Toroidal Plasmas

Phys. Rev. Lett. **78**, (Jan 20, 1997) 456.

Machuzak, J.S.

TFTR 60 GHZ Alpha Particle Collective Thompson Scattering Diagnostic

Presented at the Tenth Topical Conference on High Temperature Plasma Diagnostic
Conference, Rochester, NY 8-12 May, 1994.

Majeski, R.

Mode Conversion Studies in TFTR

in the Proceedings of the 15th International Atomic Energy Agency Conference
on Plasma Physics and Controlled Nuclear Fusion Research 1994 (September 26-October 1, 1994,
Seville, Spain) to be published by IAEA, Vienna, 1995, paper IAEA-CN-60/A-3-I-4.

Majeski, R.

ICRF Heating and Current Drive Experiments in TFTR

Proceedings of the 22nd EPS Conference, 3-7 July 1995, Bournemouth, UK to be published

Majeski, R., et al.

Mode Conversion Heating and Current Drive Experiments in TFTR

Phys. Rev. Lett. **76**, 764 (1996).

Majeski, R., et al.

Mode Conversion Experiments in TFTR

11th Topical Conference on Radio Frequency Power in Plasmas, Palm Springs, CA, May 17-19, 1995, AIP Conference Proceedings 355 p. 63, (1996).

Majeski, R., et al.

Ion cyclotron range of frequency experiments in the Tokamak Fusion Test Reactor with fast waves and mode converted ion Bernstein waves

Phys. Plasmas **3**, 2006 (May 1996).

Majeski, R., et al.

Electron Heating and Current Drive by Mode Converted Slow Waves

Phys. Rev. Lett. **73** No 16 (2204) 17 Oct 1994.

rec10 Dec: rev rec 8 Aug 94

Manickam, J., E Fredrickson, Z Chang, et al.

MHD Stability Studies in Reversed Shear Plasmas in TFTR (CN-64/A5-2)

16th IAEA Fusion Energy Conference, Montreal, Canada, 7-11 October 1996.

Mansfield, D.K., et al.

Enhanced performance of deuterium-tritium-fueled supershots using extensive lithium conditioning in the Tokamak Fusion Test Reactor

Phys. Plasmas **2**, 4252 (Nov 95).

Mansfield, D.K., et al.

Enhancement of Tokamak Fusion Test Reactor Performance by Lithium Conditioning

Phys Plasmas **3**, 1892 (May 1996). (invited talk from APS)

Mazzucato, E., et al.

Effects of turbulent fluctuations on density measurements with microwave reflectometry in tokamaks

Presented at the Tenth Topical Conference on High Temperature Plasma Diagnostic Conference, Rochester, NY 8-12 May, 1994.

Mazzucato, E. et al.

Reflectometer Measurements of Turbulent Fluctuations in Deuterium and Tritium Plasmas in TFTR

Proceedings of the 22nd European Conference on Controlled Fusion and Plasma Physics, Bournemouth 1995 (European Physical Society, Petit-Lancy, Switzerland, 1995) Vol. 4, p. 109.

Mazzucato, E.

Tokamak Configurations with Reversed Magnetic Shear and a Peaked Current Density Profile

Phys. Plasmas **3**, 441 (1996).

Mazzucato, E., SH Batha, M. Beer, et al.

Turbulent Fluctuations in TFTR Configurations with Reversed Magnetic Shear

Phys. Rev. Lett. **77**, 3145 (Oct 7, 1996). rec: Apr 26, 96.

Mazzucato, E., SH Batha, M Beer, et al. (CN-64/AP2-16)

Turbulent Fluctuations in the Main Core of TFTR Plasmas with Negative Magnetic Shear
16th IAEA Fusion Energy Conference, Montreal, Canada, 7-11 October 1996.

McGuire, K.M., et al.

Review of D-T Results from TFTR

Presented at the 36th APS Meeting, Minneapolis, November 7-11, 1994. (Review Paper)
Phys. Plasmas **2** (6), 2176 (1995). PPPL Report-3096, May 1995.

McGuire, K.M., CW Barnes, SH Batha, et al.

Physics of High Performance Deuterium-Tritium Plasmas in TFTR

16th IAEA Fusion Energy Conference, Montreal, Canada, 7-11 October 1996
published in the Proceedings of IAEA, Vienna 1997, IAEA, **Vol I**, CN-64/-1-2, p 19-35.

McKee, G., et al.

Transport Measurements for Confined Nonthermal Alpha Particles in TFTR D-T Plasmas

submitted to Nuclear Fusion (12/15/95)

McKee, G., et al.

Confined Alpha Distribution Measurements in a Deuterium-Tritium Tokamak Plasma

Phys. Rev. Lett. **75**, 649 (1995). PPPL-3102.

McKee, G.R., et al.

Implementation of the -CHERS Diagnostic for D-T Operation of TFTR

Presented at the Tenth Topical Conference on High Temperature Plasma Diagnostic
Conference, Rochester, NY 8-12 May, 1994.
Rev. Sci. Instrum. **66**, 643 (Jan 1995)

Meade, D.M.

Tokamak Fusion Test Reactor D-T Results

Fusion Engineering Design **30** (1995) 13-23.

Presented at the 18th Symposium on Fusion Technology, Karlsruhe, Germany August 22-26, 1994 (invited
paper). 18th SOFT, 1994 published by Elsevier.

Meade, D.M.

TFTR experience with D-T operation

Meade, D.M. (for the TFTR Team)

Fusion Engineering Design **27** (1995) 17-26.

Medley, S.S., et al.

Measurements of Energetic Confined Alphas and Tritons on TFTR

Proceedings of the 22nd EPS Conference, 3-7 July 1995, Bournemouth, UK to be published
PPPL-3129 (August 1995) pp.4

Medley, S.S., et al.

Initial Operation of the Alpha Charge Exchange Diagnostic Using Impurity Pellet Injection into Deuterium Plasmas on TFTR

Presented at 20th EPS Conf, July 26-30, 1993, Lisbon, Portugal.

in Proceedings of the 20th EPS Conference on Controlled Fusion and Plasma Physics, (Lisbon, Portugal, July
26-30, 1993), Vol. III, 1183-1186.

Medley, S.S., et al.

The Pellet Charge Exchange Diagnostic for Measurement of Energetic Confined Alphas and Tritons in DT Plasmas on TFTR

to be submitted to Rev. Sci. Instrum. in December 1995.

Medley, S.S. et al.

Pellet Charge Exchange Measurements of Energetic Confined Alphas and Tritons in the Quiescent Core of TFTR Plasmas

submitted to Plasma Physics and Controlled Fusion 1/19/96

Medley, S.S. et al.

Design and Operation of the Pellet Charge Exchange Diagnostic for Measurement of Energetic Confined Alphas and Tritons on TFTR

PPPL-3173 - Preprint

Mikkelsen, D.R., et al.

Deuterium-Tritium Simulations of the Enhanced Reversed Shear Mode in TFTR

submitted to Phys. Plasmas sept 1996, accepted Feb 12, 1997, and PPPL Report PPPL-3240 (March 1997).

Mueller, D., et al.

Disruption Avoidance on TFTR

Fusion Technol. **30**, 251-257 (November 1996) submitted 2/1/96.

Mueller, D., W. Blanchard, J. Collins, et al.

Tritium Removal from TFTR

12th Int. Conf. on Plasma Surface Interactions (PSI) in Controlled Fusion Devices, St Raphael, France May 20-24, 1996. accepted for Publication in J. Nucl. Mater.

Mueller, D., W. Blanchard, J. Collins, et al.

Removal of Tritium from TFTR

12th Topical Meeting on Technology of Fusion Energy, Reno, NV, June 16-20, 1996
Accepted for publication in Fusion Technology

Nagayama, Y., G. Taylor, et al.

ECE Image Reconstruction of Parital Sawtooth Crashes in Ohmic Plasmas

Nucl. Fusion, **36**, No. 4 (1996).

Nagayama, N., G. Taylor, et al.

Tomography of (2,1) and (3,2) magnetic island structures on Tokamak Fusion Test Reactor

Phys. Plasmas **3**(7), 521, 1996.

Y. Nagayama (NIFS), M. Yamada, et al.

Tomography of full sawtooth crashes on the Tokamak Fusion Test Reactor

Phys. Plasmas **3** (5), May 1996.

Y. Nagayama(NIFS), M. Yamada, W. Park, ED Fredrickson, et al.

Investigation of Sawtooth Crashes in high beta TFTR Plasmas PRL 6/27/95.

Nazikian, R.

Reflectometer Measurements of Density Fluctuations in Tokamak Plasmas

Presented at the Tenth Topical Conference on High Temperature Plasma Diagnostic Conference, Rochester, NY 8-12 May, 1994.

Nazikian, R., et al.

High Frequency Core Localized Modes in Neutral Beam Heated Plasmas on TFTR

Phys. Plasmas **3**(2), 593 (1996).

Nazikian, R., SH Batha, MG Bell, et al.

Observation of Alpha-article Driven Toroidal Alfvén Eigenmodes in TFTR DT Plasmas

16th IAEA Fusion Energy Conference, Montreal, Canada, 7-11 October 1996. (CN-64/A2-4)

Nazikian, R., GY Fu, SH Batha, et al.

Alpha-Particle Driven Toroidal Alfvén Eigenmodes in the Tokamak Fusion Test Reactor

Phys. Rev. Lett. **78**, 2976 (April 14, 1997). rec: 11/11/96

O'Brien, et al.

Three dimensional Fokker-Planck calculation of particle distributions: a TFTR simulation

Nucl. Fusion **35**(12), 1537 (1995).

Okabayashi, M., E. Fredrickson, J. Manickam, G. Taylor, S. Batha, M. Bell, R. Budny, et al
Mode Structure of Disruption Precursors in TFTR Enhanced Reversed Shear Discharges
to submit to NF and PPPL Report 9/11/97

Owens, D. K., et al.

Plasma-Surface Interactions in TFTR DT Experiments

Presented at 11th International Conference on Plasma Surface Interactions in Controlled Fusion
Devices, Mito, Ibaraki, Japan, May 23-27, 1994. (PSI Paper 17)
Journal of Nuclear Materials, **220-222** (1995) 62-72.

Park, H.K., et al.

**Characteristics of Confinement and Fusion Reactivity in JT-60U High- β_p and TFTR
Supershots Regimes with Deuterium Neutral Beam Injection**

in Plasma Physics and Controlled Nuclear Fusion Research 1995 (Proc. 15th Int. Conf. Seville, Spain, 1994),
IAEA, Vienna, 1995, Vol. 2, p. 3.

Park, H.K., and S.A. Sabbagh

**Fusion Reactivity, Confinement, and Stability of Neutral-Beam Heated Plasmas in TFTR
and other Tokamaks**

submitted as PPPL Report - 3183*. and under diff. title below to NF 2/25/97.

Park, H.K., and S.A. Sabbagh

Effect of Neutral Beam Fueling Profile on Fusion Power, Confinement, and Stability on TFTR

Nucl. Fusion 37(5) page ??? (1997) , accep: 2/25/97 note revised title.

Park, H.K. , S.A. Sabbagh , S. Batha

**The Role of Neutral Beam Fueling Profile in the Performance of the Tokamak Fusion Test Reactor and other
Tokamak Plasmas**

to be published in Phys. Plasmas May 1997 Special Edition to APS Invited Talks, PPPL-3238 (Feb 97).

Park, W. et al.

High- β_p Disruption in Tokamaks

Princeton University, Plasma Physics Laboratory Report PPPL-3104
Phys. Rev. Lett. **75**, 1763 (1995).

Park, W. , Z. Chang, et al.

3D Simulation Studies of Tokamak Plasmas Using MHD and Extended-MHD Models
16th IAEA Fusion Energy Conference, Montreal, Canada, 7-11 October 1996. (CN-64/D2-2)

Paul, S.F.

The Effect of High Energy Neutron Flux on Fiber Optics in an Active Diagnostic on TFTR

Sci. Instrum **66** , 1252-1255 (1995).

Paul, S.F.

The Influence of Plasma Species on Density Fluctuations in TFTR

Proceedings of the 22nd EPS Conference, 3-7 July 1995, Bournemouth, UK, Vol 19, Pt IV105-108.

Paul, S.F.

The Influence of Plasma Species on Density Fluctuations in TFTR

to be submitted to Plasma Phys. & Control. Fus. in longer version than EPS proceedings.

Petrov, M.P., et al

Studies of Energetic Confined Alphas Using the Pellet Charge Exchange Diagnostic on TFTR

Fourth IAEA Technical Committee Meeting and Joint US-Japan Workshop on Alpha Particles in Fusion Research, Princeton, NJ, April 25-28, 1995.,
Nucl. Fusion **35** (12) 1437 (1995), PPPL Report 3121, July 1995.

Petrov, M.P., NN Gorelenkov, RV Budny, et al.

Sawtooth Mixing of Alpha Particles in TFTR D-T Plasmas (CN-64/A2-2)

16th IAEA Fusion Energy Conference, Montreal, Canada, 7-11 October 1996.

Phillips, C.K.

Ion Cyclotron Range of Frequencies Heating and Current Drive in Deuterium-Tritium Plasmas

Presented at the 36th APS Meeting, Minneapolis, MN, November 7-11, 1994. (Invited Talk)
Phys. Plasmas **2** (6), 1995 p.2427.

Phillips, C.K.

Majority Ion Heating Near the Ion-ion Hybrid Layer in Tokamaks

11th Topical Conference on Radio Frequency Power in Plasmas, Palm Springs, CA, May 17-19, 1995, to be published in AIP Conference Proceedings in 1995/1996.
submitted for PPPL Report 8/11/95.

Phillips, C.K.

Comments on finite Larmor radius models for ion cyclotron range of frequencies heating in tokamaks

Phillips, C.K., and J.R. Wilson
Phys. Plasmas **1** (12), December 1994

Phillips, M.W., M.C. Zarnstorff, et al.

A magnetohydrodynamic stability study of reverse shear equilibria in the Tokamak Fusion Test Reactor

Phys. Plasmas **3**, 1673 (May 1996).

Phillips, C.K., S.D. Scott, M.G. Bell, et al.

Scaling of Confinement with Isotopic Content in Deuterium and Tritium Plasmas

Phys. Rev. Lett. **79**(6) 1050, August 11, 1997. rec Nov 14, 1996, revised rec April 28, 1997.

Ramsey, A.T.

D-T Radiation Effects on TFTR Diagnostics

Presented at the Tenth Topical Conference on High Temperature Plasma Diagnostic Conference, Rochester, NY 8-12 May, 1994.
Review of Scientific Instruments **66**, 871-876 (1995), Report PPPL-3010 (Oct 94)

Ramsey, A.T.

Reduced Optical Transmission of SiO₂ Fibers used in Controlled Fusion Diag.

PPPL Report PPPL-2867 (1993).

Redi, M. H. et al.

Collisional Stochastic Ripple Diffusion of Alpha Particles and Beam Ions on TFTR

Nucl. Fusion **35**, 10 (1995) p. 1191-1211. PPPL-3011-R (July 95)

Redi, M.H., et al.

Modelling TF Ripple Loss of Alpha Particles in TFTR DT Experiments

Nucl. Fusion **35**, 1509 (1995). PPPL -3113 (July 1995).

Redi, M.H., et al.

TF Ripple Loss of Alpha Particles in TFTR DT Experiments

Proceedings of the 22nd EPS Conference, 3-7 July 1995, Bournemouth, UK to be published
PPPL Report 3139

Redi, M.H., et al.

Simulations of alpha particle ripple loss from the International Thermonuclear Experimental Reactor
Phys. Plasmas **3**, 3037 (August 1996).

Redi, M.H., R.B. White, SH Batha, et al.

Calculations of Alpha Particle Loss for Reversed Magnetic Shear in the TFTR Tokamak
Phys. Plasmas **4**(11) 4001 (1997). rec 2/14/97, accept 8/8/97. PPPL-3239

Alpha Particle Loss in TFTR Deuterium-Tritium Plasmas with Reversed
Magnetic Shear

PPPL-3253, Preprint: June 1997,

M.H. Redi, S.H. Batha, R.V. Budny, D.S. Darrow, F.M. Levinton, D.C.

McCune, S.S. Medley, M.P. Petrov, E. Ruskov, S. von Goeler, R.B. White,

M.C. Zarnstorff, S.J. Zweben, and the TFTR Team

Proc. 24th EPS Conf. on Controlled Fusion and Plasma Physics,, Berchtesgaden, Germany, 1997. to appear in
the Conf Proceedings about 10/97.

Rogers, B. et al.

Nonlinear * -Stabilization of the $m = 1$ Mode in Tokamaks

Princeton University, Plasma Physics Laboratory Report PPPL-3125
submitted to Physics of Plasmas

Rogers, J.H.

Recent Results from the TFTR ICRF D-T Program

21 European Physical Soc Mtg PPDIV. Montpellier, France, 6/27-7/1, 1994

Rogers, J.H., et al.

Fast Wave Current Drive on TFTR

11th Topical Conference on Radio Frequency Power in Plasmas, Palm Springs,
CA, May 17-19, 1995, in AIP Conference Proceedings 355 p. 209, 1996.

Rogers, J.H., JC Hosea, B. LeBlanc, et al.

ICRF Heating and Current Drive Experiments on TFTR (CN-64/EP-2)

16th IAEA Fusion Energy Conference, Montreal, Canada, 7-11 October 1996.

Ruskov, E., et al.

Evidence fo Spatially Variable Beam Ion Diffusion in TFTR

submitted to Plasma Phys. and Controlled Fusion (10/20/95)

Ruskov, E. et al.

**Diffusive modelling of enhanced beam ion transport in TFTR plasmas heated
with deuterium and tritium beam.**

Nucl. Fusion **35** 1517 (1995).

Ruskov, E., et al.

Diffusion of beam ions at the Tokamak Fusion Test Reactor

Nucl. Fusion **35**(9), 1099 (1995).

Ruskov, E., et al.

Measurements of 14 MeV neutrons at TFTR with Si-diode detectors

Rev. Sci. Instrum. **66**, 910 (1995).

Sabbagh, S.A

High Performance Deuterium-Tritium Plasmas in TFTR

proceedings in Varenna Workshop

Sabbagh, S.A., et al.

Deuterium-Tritium TFTR Plasmas in the High Poloidal Beta Regime

in Proceedings of the 15th International Atomic Energy Agency Conference on Plasma Physics and Controlled Nuclear Fusion Research 1994 (September 26-October 1, 1994, Seville, Spain) IAEA, Vienna, 1995
Vol. I, 663-674 (1995). PPPL-3078 (March 1995)

Sabbagh, S.A., ED Fredrickson, DK Mansfield, et al. (CN-64-AP2-17)

Deuterium-Tritium TFTR Plasmas with High Internal Inductance.

16th IAEA Fusion Energy Conference, Montreal, Canada, 7-11 October 1996.

Schilling, G., et al.

Coupling of High ICRF Power into TFTR Plasmas During the D-T Phase

11th Topical Conference on Radio Frequency Power in Plasmas, Palm Springs, CA,
May 17-19, 1995, AIP Conference Proceedings 355 p. 35, (1996).

Scott, S.D.

Isotopic Scaling of Confinement in Deuterium-Tritium Plasmas

Presented at the 36th APS Meeting, Minneapolis, MN, November 7-11, 1994. (Invited Talk)
Phys. Plasmas **2**(6), 2299 (1995). PPPL-3059 (March 1995).

Scott, S.D., et al.

Isotopic Scaling of Transport in Deuterium-Tritium Plasmas

Physica Scripta **51**, 394-401, (1996). PPPL-3001

Scott, S.D., GW Hammett, CK Phillips, et al.

Isotope Scaling of Heating and Confinement in Multiple Regimes of TFTR
16th IAEA Fusion Energy Conference, Montreal, Canada, 7-11 October 1996
published in the Proceedings of IAEA, Vienna, 1997, Vol I, CN-64/A6-6, p573-591.

Shaing, K.C., MC Zarnstorff, and CT Hsu

Orbit squeezing in a magnetic well

Phys Plasmas **3**(8) 2843 (1996) rec Feb 13, 96, accept May 9, 1996.

Skinner, C H et al.

First Measurements of Tritium Recycling in TFTR

PPPL Report -2993 (June 1994)19pp,
in proceedings of 21st EPS Mtg. of PPD, Montpellier, France, June 27-July 1, 1994. (a short preview
of the Nucl. Fus. publication of the same title)
Nucl. Fus. **35**(2) 143-151, (1995).

Skinner, C.H.

Spectroscopic Diagnostics of Tritium Recycling in TFTR

Presented at the Tenth Topical Conference on High Temperature Plasma Diagnostic
Conference, Rochester, NY 8-12 May, 1994.
Rev. Sci. Instrum., **66**, 646-648, Jan. 1995.

Skinner, C.H., et al.

Measurements of tritium retention and removal on TFTR

PPPL -Report # PPPL 3172 (Jan 1996) 16pp,
to be published in J. Vac. Sci. Technol.

Skinner, C.H., et al.

Measurements of tritium recycling and isotope exchange in TFTR
presented at 12 PSI Conference, France, 20-24 May 1996

Skinner, C.H., et al.

The Effect of Plasma Wall Interaction on TFTR DT Plasma Discharges or Recent TFTR experience

with tritium retention, lithium conditioning and advanced tokamak physics.

Invited paper presented at 12 PSI Conference, France, 20-24 May 1996

Skinner, C.H., M.G. Bell, R.V. Budny, et al.

Transport of recycled deuterium to the plasma core in TFTR
accepted to Phys. Plasma Nov 1997, PPPL 3271 Nov 1997.

Stotler, D.P., C.H. Skinner, R.V. Budny, and At.T. Ramsey

Modeling of Neutral Hydrogen Velocities in the Tokamak Fusion Test Reactor

accepted to Phys. Plasma to be published in Fall 96. sub in 5/22/96.
PPPL-3196 (June 1996)

Strachan, J.D.

Deuterium and Tritium Experiments on TFTR

Invited talk presented at the 21st EPS Meeting of Plasma Physics Division, Montpellier, France,
June 27-July 1, 1994.

Plasma Physics and Controlled Fusion **36** 12B(1994) B3-B15.

Strachan, J.D., et al.

Fusion Power Production from TFTR Plasmas Fueled with Deuterium and Tritium

Phys. Rev. Letts. **72**, 3526, (1994).

Strachan, J.D.

Absolute Calibration of TFTR Helium Proportional Counters

Tenth Topical Conference on High Temperature Plasma Diagnostic, Rochester, NY 8-12 May, 1994.
Rev. Sci. Instrum. **66**(2) February 1995.

Stratton, B. C., et al.

Observation of Sawtooth Redistribution of Nonthermal, Confined Alpha Particles in TFTR D-T Discharges

Nucl. Fusion **36** (1586) 1996. sub to NF 2/24/96

Stratton, B. C. et al.

Measurements of Nonthermal Confined Alpha Particles in TFTR D-T Plasmas

invited talk at the Monterey High Temperature Plasma Diagnostics Conference May 13. submitted a paper
with the same title for publication in the conference proceedings.

Synakowski, E., et al.

Measurements of the Production and Transport of Helium Ash on the TFTR Tokamak

Phys. Rev Lett. **75**, 3689 (1995). PPPL Report -3051, March 1995

Synakowski, E.J., S.H. Batha,(a) M.A. Beer, et al.

The Roles of Electric Field Shear and Shafranov Shift in Sustaining High Confinement in Enhanced Reversed Shear Plasmas on the TFTR Tokamak

Phys. Rev. Lett. **78**, 2972 (April 14, 1997). rec: 10/24/96 acc: 4/7/97 PPPL-3233 ,Feb 1997

Synakowski, E.J. , S.H. Batha,(a) M.A. Beer, et al

Local Transport Barrier Formation and Relaxation in Reverse-Shear Plasmas on the TFTR Tokamak

invited paper in the to be published in Phys. Plasmas. APS Invited Talk.
to appear in Special Issue of Phys. Plasmas in May 1997, PPPL-3237 (Feb 97?)

Taylor, G., et al.

ICRF Heating of Deuterium-Tritium Plasmas in TFTR

in the Proceedings of the 15th International Atomic Energy Agency Conference
on Plasma Physics and Controlled Nuclear Fusion Research 1994 (September 26-October 1, 1994,
Seville, Spain) to be published by IAEA, Vienna, 1995, paper IAEA-CN-60/A-3-I-3.
Plasma Physics and Control Fusion **38**, 723-750 (May 1996).

Taylor, G.

Alpha Heating of Electrons in TFTR D-T Plasmas

presented at the Alpha Workshop, April 1995, PPPL, submitted to PRL as "Fusion Heating in D-T..."

Taylor, G., et al.

Fusion Heating in a Deuterium-Tritium Tokamak Plasma

(presented at the Alpha Workshop under diff. title)

Phys. Rev. Lett. **76**, 2722 (1996).

Taylor, G.

Performance of ICRF-Heated D-T Plasmas Fueled by Neutral Beam Injection in TFTR

11th Topical Conference on Radio Frequency Power in Plasmas, Palm Springs, CA, May 17-19, 1995, to be published in AIP Conference Proceedings in 1995/1996.

Taylor, G., et al.

ICRF Heating of TFTR Plasmas Fueled by Deuterium-Tritium Neutral Beam Injection

Plasma Phys. and Control. Fus. **38**, 723-750 (May 1996).

Tighe, W.

Proposed Experiment to Investigate Use of Heated Optical Fibers for Tokamak Diagnostics during D-T Discharges

Presented at the Tenth Topical Conference on High Temperature Plasma Diagnostic Conference, Rochester, NY 8-12 May, 1994.

von Goeler, S. et al.

Fast Detection of 14 MeV Neutrons on the TFTR Neutron Collimator

accepted to Rev. Sci. Instrum. (11/2/95)

PPPL report in preparation

Valeo, E.J. and N.J. Fisch

Excitation of Large-k Ion-Bernstein Waves in Tokamaks

Phys. Rev. Lett. **73**, 3536 (1994).

White R. B. et al.

Toroidal Alfvén Eigenmode Induced Ripple Trapping

Princeton University, Plasma Physics Laboratory Report PPPL-3090

Phys. Plasmas **2** (8), 1 (1995).

White, R. B. et al.

Non-linear Analysis of the Toroidicity-Induced Alfvén Eigenmode

IAEA Technical Committee Meeting and Joint US-Japan Alpha Particles in Fusion Research

Nucl. Fusion **35**, 1707 (1995).

White, R.B. et al.

Ripple-induced energetic particle loss in tokamaks

Phys. Plasmas **3** (8), August 1996 p.3043

Wilson, J.R. et al.

Ion Cyclotron Range of Frequency Heating of a Deuterium-Tritium Plasma via the Second-Harmonic Tritium Cyclotron Resonance

Phys. Rev. Lett. **75**, 842 (1995).

rec 22 Feb: acc 29 Apr 96

Wilson, J.R. et al.

ICRF in D-T Plasmas in TFTR (invited paper)

11th Topical Conference on Radio Frequency Power in Plasmas, Palm Springs, CA, May 17-19, 1995, AIP Conference Proceedings 355 p. 3, (1996).

Wong, K.L.

Evidence of Coupling Between Toroidal Alfvén Eigenmodes and Kinetic Alfvén Waves

11th Topical Conference on Radio Frequency Power in Plasmas, Palm Springs, CA, May 17-19, 1995, to be published in AIP Conference Proceedings in 1995/1996.

Wong, K.L.

Investigation of Alpha Particle Effect on Toroidal Alfvén Eigenmodes in DT Plasmas in TFTR

Fourth IAEA Technical Committee Meeting and Joint US-Japan Workshop on Alpha Particles in Fusion Research, April 25-28, 1995. (submitted to PRL under diff. title)

Wong, K.L., et al.

First Evidence of Collective Alpha Particle Effect on TAE Modes in the TFTR DT Experiment

Phys. Rev. Lett. **76**, 2286 (March 25 1996).

Wong, K.L., R. Majeski, M. Petrov, et al.

Evolution of Toroidal Alfvén Eigenmode Instability in TFTR

Phys. Fluids **4**(2) 393 (1997) rec July 26, 1996, accept Nov 7, 1996, and PPPL Report-3204

****Wong, K.L., N.L. Bretz, T.S. Hahm, et al.

Short Wavelength Fluctuations and Electron Heat Conductivity in Enhanced Reversed Shear Plasmas submitted Phys. Rev. Lett. June 26, 97

rec'd comments from referees 9/8/97 has to decide what to do next

Wright, J.C., C.K. Phillips, and P.T. Bonoli (per Wright not TFTR paper)

A Direct Calculation of Current Drive in Toroidal Geometry
submitted to PRL (8/3/96) resubmitted to NF 1/97.

Wu, Y., R. B. White, Y. Chen, and M. N. Rosenbluth

Nonlinear Evolution of the Alpha Particle Driven Toroidicity-Induced Alfvén Eigenmode

Phys. Plasmas **2**, 4555-4562 (1995) PPPL Report PPPL-3103

Wurden, G.A.

Detection of Alpha Particles via Observation of He II Line Emission in the Lithium Pellet Cloud during D-T Operation in TFTR

21 European Physical Soc Mtg PPDiv. , Montpellier, France, 6/27-7/1, 1994

Wurden, G.A.

A Scintillating-Fiber 14-MeV Neutron Detector on TFTR during DT Operation

Presented at the Tenth Topical Conference on High Temperature Plasma Diagnostic Conference, Rochester, NY 8-12 May, 1994.

Yamada, M. et al.

Investigation of Magnetic Reconnection During a Sawtooth Crash in a High Temperature Tokamak

Princeton University, Plasma Physics Laboratory Report PPPL-3004
Phys. Plasmas **1**, 3269 (1994).

Zhao, Yi, and RB White

Simulation of a-particle redistribution due to sawteeth on the TFTR

Phys. Plasmas **4**(4) 1103 (1997). sub 12/11/96, PPPL-3219.

Zarnstorff, M.C., et al.

Heating and Transport in TFTR D-T Plasmas

to be published in Proceedings of the 15th International Atomic Energy Agency Conference on Plasma Physics and Controlled Nuclear Fusion Research 1994 (September 26-October 1, 1994,

Seville, Spain) IAEA, Vienna, 1995, paper IAEA-CN-60/A-2-I-2. PPPL-3077 (Mar 1995).

Zarnstorff, M.C., FM Levinton, SH Batha, EJ Synakowski

The Effect of E_r on MSE measurements of q , a new technique for measuring E_r , a test of the neoclassical electric field.

Phys. Plasmas **4**(4) 1097 (1997). sub 10/2/96 and rev 1/97. PPPL Report-3218.
(Invention: *Spectroscopic method to measure electric fields in a plasma* M640 (disclosure number).)

Zweben, S., et al.

Measurements of D-T Alpha Particle Loss Near the Outer Midplane of TFTR

(4th IAEA TCM paper, April 25-28, 1995, held at PPPL)
Nucl. Fusion **35**, 1445 (1995).

Zweben, S.

Search for Alpha-Driven TAE Modes at Lowered Ion Temperature in TFTR D-T Discharges

Nucl. Fusion **36**, 987 (1996). accept. to N F 2/22/96.

Zweben, S.J., et al.

Alpha-particle loss in the tokamak fusion test reactor DT experiments

Nucl. Fusion **35**, 893-917 (1995).
PPPL-3045

Zweben, S.J.

Measurements of Escaping Alphas in the TFTR D-T Experiments

21 European Physical Soc Mtg PPDiv.
Montpellier, France, 6/27-7/1, 1994 - published in the proceedings.

Zweben, S.J.

Anomalous losses of deuterium-deuterium fusion products in the Tokamak Fusion Test Reactor

Phys. Plasmas **1**, 1469, (1994).

Zweben, S.J., et al.

Methods for the Measuring Surface Tritium Inside TFTR using Beta Decay

Rev. Sci. Instrum. **66**, 359, Jan. 1995
Presented at the Tenth Topical Conference on High Temperature Plasma Diagnostic
Conference, Rochester, NY 8-12 May, 1994.

Zweben, S.J., et al.

Alpha Particle Physics in TFTR DT Experiment

Plasma Phys. and Cont Fus, **39** 1997 A275-A283.
paper presented in Intl Conf. on Plasma Physics (8th ICPP meeting in Nagoya, Japan, Sept 9-13th 1996)

Zweben, S.J. ???

Effects of $q(r)$ on the alpha particle ripple loss in TFTR
plan submit to NF and PPPL Report Status 9/8 per SZ

Unpublished Invited papers and talks

Mueller, D.

Results of TFTR D-T Experiments

Proc. of the 2nd Intl Workshop on Tritium Effects in Plasma Facing Components,
Nagoya, Japan, May 19-20, 1994

Mueller, D.

Ongoing and Planned D-T Experiments on TFTR

IEEE Intl Conf. on Plasmas Science IEEE Conf. Record Abstracts, Boston, MA
June 3-5, 1996.

10th Topical Rochester Confr 1994 = Rev. Sci. Instrum.