D

FIRST-AUTHOR/Co-AUTHOR PUBLICATIONS

Possiblesignatures of dissipation from-sterries analysis techniques using a turbulent laboratory MHD plasma D.A. Schaffier, M.R. Brown, and A. Rockhysics of Plasmass 055709 (2016)

Multifractal and Monofra Stalling in a Laboratory Magnetohydrodynamic Turbulence Experament. Schaffner and M. R. Brown. The Astrophysical Journal

ACTIVITIES AND OUTREACH

Director of Graduate Recruiting, Department of Physics, Bryn Mawr College

Co-organizer for Global Plasma Monthww.facebook.com/GlobalPlasmaMonth

Served as referee Parysical Review LetterPhysics of Plasmaournal of Plasma PhysicasdIEEE

Transactions on Plasma Science

Served as a panel and-hoc eviewer for the N-STOE Basic Plasma Science and Engineering program Founding member and organizer for the Young PRPSCommunity

Member of the University Fusion Association (UFA)

Member of the Young CMSO (Center for Magn@ig@ilfation)

Member ofhe American Physical SocieAPS)

Member of the American Geophysical U(AGb)

Participant in the American Institute of PKASPD'S -A-

Webmaster and contemanager of thereigh Mawr Physics website: www.brynmawr.edu/physics Speaker for Nerd Nite

MEDIA

American Institute of Physichysics of Plasma Jour Redsma Talks Audio Podcast Turbulence and transport suppression scaling with flow shear on the Large Plasma Device http://scitation.aip.org/content/aip/journal/pop/info/media

Physics CentralPhysics Buzz Blogudio Podcast.
Solar Winds and Hot Plasma Experiments
http://physicsbuzz.physicscentral.com/2014/12/podcast.winds-and-hot-plasma.html

Bryn Mawr College Website Profile

Researchers Turn to Plasma to Harness the Power of Fusion

https://www.brynmawr.edu/news/reseaturimerlasmaharnesspower

FULL BIBLIOGRAPHY

FIRST-AUTHOR/CO-AUTHOR PUBLICATIONS

Possiblesignatures of dissipation from-sterries analysis techniques using a turbulent laboratory MHD plasma D.A. Schaffner, M.R. Brown, and A. Rock. Physics of **2lasous** 709 (2016)

Multifractal and Monofractal Scaling in a Laboratory Magnetohydrouthoutenice Experiment. A. Schaffner and M. R. Brown. The Astrophysical Journal (2015).

The SSX MHD Wind Tunindl. R. Brown and D. A. Schaffner. Journal of Plasma Bhysids 810302 (2015).

Laboratory sources of turbulent plasma: a unique MHD plasma wind RuBnelwn and D. A. Schaffner. Plasma Sources and Science Technology 3001 (2014).

Temporal and Spatial Turbulent Spectra of MHD Plasma and an Observation of Variance. Anisotropy, Schaffner, M.R. Brown and V.S. Lukin. The Astrophysical JODG (2014).

Observation of turbulent intermittency scaling with magnetine ane Notify plasma wind tunnel. Schaffner, A. Wan and M.R. Brown. Physical Review 142465001 (2014).

Turbulence analysis of an experimental flux rope. Das Schaffner, V.S. Lukin, A. Wan, M.R. Brown. Plasma Physics Controlled Fusion

Energy dynamics in a simulation of LAPD turb deficedman, T. A. Carter, M. V. Umansky, D. Schaffner, and B. Dudsor Physics of Plasmas 19 10230 (2012).

Shearedflow induced confinement transition in a linear magnetized p to W. W. Heidbrink, H. Boehmer, R. McWilliams, T. A. Carter, S. Vincena, B. Friedman, and D. S. Play Since Plasmas 19 012116 (2012).

Diamond pixel module. Asner et al, The RD42 Collaboration. Nuclear Instruments and Methods in Physics Research A: Acceleratopæctrometers, Detectors and Associated Equipment 636, Issue 1, Supplement 21, S125129 (2011).

Absorption of fast waves at moderate to high ion cyclotron harmanias. Aprinal ker, M. Porkolab, W.W. Heidbrink, Y.Luo, C.C. Petty, R. Prater, and M.A. Schaffner, F.W. Baity, E. Fredd, J.C. Hosea, R.W. Harvey, A.P. Smirnov, M. Murakami and M.A. Van Zeeland. Nuclear 466840165424 (2006).

Manuscripts in Preparation

- -Angular intermittency of a turbul laboratory plasma
- -Spatialcorrelations in a turbulent MHD laboratory plasma

Ρ

Invited Talk.Modification of Turbulent Transport with Continuous Variation of Flow Shear in the Large Plasma DeviceAmerican Physical Society Division of Plasma Physics Meeting. Providence, RI, November 2012.

Contributed OraDbservation of improved and degrade thement through driven flow on the ELAPD US Joint Transport Task Force Meeting. Padua, Italy, August 2012.

Invited Talk. Observation of improved and degraded confinement through driven flow on the LAPD International Workshop for Open Systlenternational Work Shop on Plasma Material Interaction Facilities for Fusion Joint Conference. Tsukuba, Japan, July 2012.

Contributed Ora Observation of improved and degraded confinement through driven flow on the LAPD. General Atomics Science Meeting. Samp DEA, May 2012.

Plenary Talk Observation of improved and degraded confinement through driven flow. duhSthe LAPD Transport Task Force Workshop. Annapolis, MD, April 2012.

Seminar. Observation improved and degraded confinement and reduction of particle flux through driven flow on the LARDCLA Plasma Seminar Series. Los Angeles, CA, February 2012.

Contributed OraTurbulence and Flow in the Large Plasma D@yirckinetics in Laboratoryda Astrophysical Plasmas Conference at the Isaac Newton Institute of Mathematical Sciences. Cambridge, June 2010.

POSTERS

Plasma Accelerator on the Swarthmore Spheromak Experiment: An Exploration of the Compressed Taylor State as a Fusion TargetPAE Energy Innovation Summit. National Resort, MD. February 2016. Plasma Accelerator on the Swarthmore Spheromak Experimentation of the Compressed Taylor State as a Fusion TargetPAE ALPHA Program Kickoff Meeting. Santa Fe, NM. October 2015. Plasma Physics at the Cloric Laboratory Astrophysics and Fusion Studies Plasma Fest, Westwood, CA. September 2015.

Heliospheriælevant Turbulence in Laboratory Plashlale Conference. Stowe, VT, July 2015. Heliospheriælevant Turbulence in Laboratory Plasepartment of Energy Town Hall Meeting. Bethesda, MD, June 2015.

Turbulence analysis of an MHD Wind T. American Physical Society Division of Plasma Physics Meeting. New Orleans, LA, November 2014.

Turbulence analysis of an MHD Wind Tustoner. Heliospheric & Interplanetary Environment Meeting. Telluride, CO, June 2014.

Turbulence scaling study in an WHD tunnel on the Swarthmore Spheromak ExpeAimerican Physical Society Division of Plasma Physics Meeting. Denver, CO, November 2013.

Mode Analysis and Dynamics of driven rotation on the Large Plaston &-Devideint Transport Task Force Wokshop. Santa Rosa, CA, April 2013.

Observation of improved and degraded confinement through driven flow on the Large Plasma Device. American Physical Society Division of Plasma Physics Meeting. Salt Lake City, UT, November 2011. A spectral analysis for middentification on LAPD edge turbulence. U. Joint Transport Task Force Workshop. San Diego, CA, April 2011.

Flows, turbulence, and transport in the Large Plasma Andericaen Physical Society Division of Plasma Physics Meeting. Chicago, IL, Notwer 2010.

Studies of flow generation and momentum transport \(\text{UhSLAP}\(\text{a} \)nsport Task Force Workshop. Annapolis, MD, April 2010.

Investigation of flows in LAPD and their relation to edge turbulence and in Aemenitaan Physical Society Division Plasma Physics Meeting. Atlanta, GA, November 2009.

Evaluation of Ion Cyclotron Harmonic Damping on Mathomellian Distribution Function Physical Society Division of Plasma Physics Meeting. Denver, CO, November 2005.

DOCTORAL THESIS

Studyof Flow, Turbulence and Transport on the Large Plasma Device