

Plasma Theory, Wave Kinetics, Nonlinear Dynamics: KaufmanFest 2007

Journal of Physics: Conference Series Volume 169

**Berkeley, California, USA
5-7 October 2007**

ISBN: 978-1-61738-314-4

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571
www.proceedings.com

Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2007) by the Institute of Physics
All rights reserved.

Printed by Curran Associates, Inc. (2010)

For permission requests, please contact the Institute of Physics
at the address below.

Institute of Physics
Dirac House, Temple Back
Bristol BS1 6BE UK

Phone: 44 1 17 929 7481
Fax: 44 1 17 920 0979

techtracking@iop.org

TABLE OF CONTENTS

KaufmanFest 2007: Plasma Theory, Wave Kinetics, and Nonlinear Dynamics	1
<i>A J Brizard, E R Tracy</i>	
A Half-century in Plasma Physics	9
<i>Allan N Kaufman</i>	
Variational Principles for Reduced Plasma Physics	27
<i>Alain J Brizard</i>	
MHD Memes	51
<i>R L Dewar, R Mills, M J Hole</i>	
Nonlinear Theoretical Tools for Fusion-related Microturbulence: Historical Evolution, and Recent Applications to Stochastic Magnetic Fields, Zonal-flow Dynamics, and Intermittency	58
<i>J A Krommes</i>	
Thoughts on Brackets and Dissipation: Old and New	93
<i>P J Morrison</i>	
Warm Plasma Model of Intense, Short-pulse Laser-plasma Interactions	105
<i>Carl B Schroeder</i>	
Allan Kaufman's Contributions to Plasma Wave Theory	115
<i>E R Tracy, A J Brizard</i>	
Analyzing Charged Particle Beams Using Lie Transform Perturbation Theory	144
<i>Kiran G Sonnad, John R Cary</i>	
Author Index	